Emergi-Lite®
Specification-grade emergency lighting products and accessories
Thomas & Betts is now ABB Installation Products, but our long legacy of quality products and innovation remains the same. From connectors that help wire buildings on Earth to cable ties that help put machines in space, we continue to work every day to make, market, design and sell products that provide a smarter, safer and more reliable flow of electricity, from source to socket.
## Table of contents

<table>
<thead>
<tr>
<th>Company profile</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nexus® monitoring system</td>
<td>4</td>
</tr>
<tr>
<td>High output MR16 LED</td>
<td>6</td>
</tr>
<tr>
<td>LED emergency lighting</td>
<td>7</td>
</tr>
<tr>
<td>Circuitry</td>
<td>8</td>
</tr>
<tr>
<td>Popular options</td>
<td>9</td>
</tr>
</tbody>
</table>

**Specification Grade table of contents** 10

**Specification Grade product intro** 13

**Spec Grade Architectural collection** 14

Table of contents 15

Lux-Ray™ LED Series 16

Revelation™ Series 18

Mini-Revelation™ Series 20

RS Series 22

TS Series 24

Prestige™ Edge-Lit Series 26

Prestige™ X40 Series 28

Prestige™ DX Series 30

Prestige™ Floor Proximity Series 32

Prestige™ Edge-Lit Accessibility Series 34

**Spec Grade Commercial collection** 36

Table of contents 37

Premier™ Compact Series 38

Premier™ Series 40

Premier™ Combination Series 42

Premier™ Exit Series 44

Provider™ PRO-2N/PRO-3N Series 46

JS-HP Series 48

JS Series 50

LC Series 52

LS Series 54

X10 LED Series 56

Prestige™ Economizer Recessed 58

Prestige™ Economizer Slim profile 59

Prestige™ Accessibility Series 60

Preceptor™ Series 62

Preceptor™ Recessed Series 63

Preceptor™ Remote Capacity Series 64

Special Wording Series 66

**Spec Grade Industrial collection** 68

Table of contents 69

Hazardous locations important info 70

NEMA enclosures – various types 71

HP Series 72

HPRL Series 74

Survive-All™ SV Series 76

Survive-All™ SVX Combination Series 78

Survive-All™ SVX Series 80

Survive-All™ EF39 Series 82

HPH Series 84

HPRL Series 86

Survive-All™ SVH Series 88

Survive-All™ SVXH Series 90

Survive-All™ SVX-HZ Series 92

Survive-All™ EF41 Series 94

EverLite™ Series 95

EXC LED Series 96

EFEP Series 98

EFXP Series 100

**Remote fixtures** 102

Table of contents 103

Lux-Ray™ LED Series 104

Literay™ Series 106

Revelation™ DC Series 107

Distinction™ DC Series 108

Distinction™ EF150 Series 110

EF10 & EF10D Series 111

EF12D-LED Series 112

HPRL Series 113

Survive-All™ EF39 & EF40 Series 114

HPRL Series 116

Survive-All™ EF41 Series 117

**Distributor select products** 118

Table of contents 119

Radiance Series 120

EL-2RHL Series 122

Prestige™ Thin Die-Cast Series 124

Total™ Edge Series 125

EL-2LED Series 126

ELXN400 LED Series 128

EF43D Series 129

EF44D Series 129

EL-2SQL LED 130

ELX400 SQL LED Series 132

ELX Remote Capable Exit Series 134

EF47DSQL Series 135

EF12D-LED Series 135

DLM-2 Series 136

GS Series 137

**Battery packs** 138

Table of contents 139

About emergency ballasts 140

Ballast/lamp reference chart 141

LEDDR Series 142

FPDL Series 143

FPDL 4 Pin Series 144

EPC Series 145

EPC-FM Series 146

EPC-2 Series 148

**Central & inverter systems** 150

Table of contents 151

Low Capacity Mini Inverter Series 152

Mini Inverter Series 154

1000W Mini Inverter Series 156

Emerg-Power Systems 158

Compact Series 160

IPS Single Phase Series 162

FTC Single Phase Series 164

3FTC Three Phase Series 166

FTC3R & 3FTC3R Series 168

Options Details 169

Control Panel & Display 170

Central Systems Request Data 171

**Accessories** 172

Table of contents 173

Wire guards 174

Accessories 176

**General information** 177

Lamp data 178

National Electrical Code 180

Life Safety Code 184

Warranty information 188

Product index 190
The Emergi-Lite® Global Emergency Lighting Research & Innovation Center in Canada is part of the ABB Group, a pioneering technology leader.

**Emergency lighting experts**  
Engineering teams with complementary expertise work together under one roof, giving you unparalleled access to our capabilities in design, innovation, quality, final assembly, testing, and service.

Our highly skilled mechanical, electrical and software engineers and product designers are specialists with proven expertise in the emergency lighting industry.

**Product reliability**  
Rest easy knowing that our high internal quality and performance standards are met at every step, from design to production to order fulfillment.

Quality, safety, ease of installation, and long-term reliability are designed into each product from the beginning, ensuring excellence. All products undergo functional testing using our specialized quality inspection facilities.

**Fast delivery**  
With over 150 people on our North American manufacturing team, we have complete control over lead time, service, and quality. We can produce exactly what we need without waiting for a large production run or overseas shipment. For express service, we keep ready-to-ship stock in warehouses across the U.S.

**Innovative solutions**  
Our product designers are on the forefront of new lighting design applications. The newest high-capacity mini inverters have expanded opportunities to transform existing lighting into emergency lighting. Our high-performance LED fixtures have low energy requirements, allowing fewer units to provide necessary lighting.

The Nexus® system puts the power of automation in your hands to manage your entire emergency lighting system from one central location. At a glance, you can see the status of every unit, even in multiple locations.

---

**Peace of mind**  
With Emergi-Lite®, you have
- Reliable safety solutions
- A dependable business partner
- Industry expertise
- Dedicated service
- North American manufacturing
- A known, trusted reputation

---

Partner with Emergi-Lite® for expertise, reliability, and innovation

Safety you can trust. Depend on outstanding service from the experts at our North American manufacturing center of excellence.
The ABB North American facility is an emergency lighting center of excellence thanks to the commitment, expertise, and creativity of every employee.
**Nexus®**

Emergency lighting monitoring system

Building & Life Safety Codes oblige building owners/managers to ensure the safe evacuation of a building in the event of an emergency.

---

01 Nexus® is a proven system supported by a 5-year warranty, and can contribute to LEED certification and support green building initiatives.

---

01 Are you prepared for a safety inspection? In the interest of public safety, building owners/managers must meet the outlined requirements for exit signs and emergency lighting equipment, including the following:

- Conduct a discharge test every month.
- Conduct functional tests annually.
- Keep a log book of maintenance information.

Complying with these requirements can be labor intensive and costly, especially in large buildings where testing every emergency light requires many man-hours. Disrupting the power supply during lengthy inspections can also put public safety at risk.

---

01 Manage testing with Nexus® to save time and costs Nexus® is a real-time monitoring system that manages the status of your entire emergency lighting and Exit Sign system from a central control unit. Nexus® runs diagnostics, performs required monthly and annual functional tests, generates maintenance logs and runs compliance reports. Available in wired or wireless (RF) versions, Nexus® installations often pay for themselves in less than two (2) years. In addition to operational savings, Nexus® helps increase system reliability and performance and reduces the risk of failed inspections. One building or a group of properties under the same management can be monitored with Nexus®.

---

01 Maximize system availability

By allowing maintenance personnel to easily maintain and monitor the emergency lighting system without having to manually check each unit, Nexus® reduces the hours required to disrupt the power supply for inspections. With Nexus®, monthly tests and reports on the status of all emergency lights and exit signs can be done individually, in groups, or together.

Advantages of the Nexus® system include saving labor; maximizing system availability by testing units in groups and stages rather than setting all units in recovery mode; and the convenience of self-monitoring. Nexus® indicates the location of a faulty unit and reports it instantly without requiring a manual search.
One building or a group of properties under the same management can be monitored with Nexus®.

**Update status instantly**
Nexus® passes messages both to and from the emergency units to instruct the units to perform all mandatory testing by communicating between the emergency units and a centrally located controller. Nexus® is a proven system supported by a 5-year warranty, and can contribute to LEED certification and support green building initiatives.

**Small system example**
In a system of less than 100 units it is most likely that the only hardware required, other than the emergency units themselves, is a controller. All communication would occur wirelessly and installation would not vary greatly from a nonmonitored system. Once the units are in place, the system will establish the mesh network. The building itself could be quite large as each unit only needs to be able to communicate with its close neighbors and does not need to communicate directly with the controller.

**Large system example**
The Nexus® RF system has been designed to be extremely flexible and provides for a range of system options. Each large site will need to be assessed for the best system solution with the assistance of ABB technical staff. The basic Nexus® RF system is designed to run on an Ethernet network which is present in most modern buildings however through a range of interface cards the backbone of the network could be WLAN.

As with the small system example, site performance will be optimized through the careful selection and placement of area controller routers and the area controller to form efficient clusters. Building layout and materials will also play some role in determining the best solution to deliver a highly effective means of testing and maintenance requirements.

For Nexus® compatibility please refer to individual product pages for complete details.
High output MR16 LED
Emergency lighting

MR16 LED illumination
With the remarkable technology development in the last decade, the light-emitting diode (LED) is becoming the preferred solution in lighting applications. The emergency lighting industry is no exception: today virtually every new product introduced to market includes “white light” light LEDs for emergency illumination. Extremely efficient and long-lasting, LED lamps become the natural alternative to incandescent lamps due to three main advantages:

- **Lamp efficacy:** 50–100 lumens per watt compared to 15–30 lumens per watt of the best halogen lamp. Allowing for smaller batteries and units and/or remote capacity
- **Operational life:** 30,000+ hours, equivalent to a lifetime warranty in emergency lighting.
- **Lower lamp temperature:** 80–120°C (176–248°F) is a huge benefit for lighting in hazardous locations.

**MR16 LED lamp benefits**
- Reduces total cost of ownership, uses few fixture due to superior illumination, thus reducing installations cost and future maintenance of the entire system.
- UL-recognized components.
- Available for standard battery voltages 6V, 12V and 24V as well as 120V operation.
- Energy-efficient LED MR16 lamp provides equivalent lighting performance to a much higher watt halogen MR16 lamp.
- Reduces required battery capacity by 75%, for battery units and remote heads.
- Small profile, compact white lighting is ideal for architectural applications.
- Typical 30,000 hours of operational life.
- Vibration-resistant LED stands up to industrial environments.
- Ideal for indoor and outdoor use.

<table>
<thead>
<tr>
<th>Lamp Description</th>
<th>Description</th>
<th>Photometry</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>200-220-Lumen 4W MR16 LED</strong></td>
<td>Leading the technology trend, Emergi-Lite® offers a complete series of 4W MR16 LED lamps available for all the standard battery voltages: 6V, 12V, 24V and 120V. With up to 30,000 hours of operational life and a luminous flux of typically 200 to 220 lumens, they are available with most emergency heads designed to hold an MR16 lamp and meet the majority of illumination specifications. For example: one pair of LED emergency heads installed at a height of 7.5ft illuminates a 6ft by 55ft path of egress.</td>
<td><img src="image" alt="55-ft. path of egress 2 X 4W MR16 LED" /> Based on an average of 1 foot candle</td>
</tr>
<tr>
<td><strong>340-Lumen 5W MR16 LED</strong></td>
<td>Keeping pace with technology, in 2012 we introduced a 12V-5W MR16 LED lamp. With a typical luminous flux of 340 lumens, this lamp has the same lighting performance as a 20W high-output halogen MR16. A twin emergency head installed at a height of 7.5ft illuminates 70ft path of egress</td>
<td><img src="image" alt="70-ft. path of egress 2 X 5W MR16 LED" /> Based on an average of 1 foot candle</td>
</tr>
<tr>
<td><strong>540-590 Lumen 6W MR16 LED</strong></td>
<td>A 6W MR16 LED lamp delivers up to 590 lumens for an average spacing in emergency lighting of 106 feet with an efficacy of 98.3 Lm/w, it is over 6 times the efficacy of a MR16 35W halogen with similar light output. This lamp can deliver the highest linear foot of illumination per watt on a path of egress! (spacing in feet / watt) 8.83ft compare to 1.37ft for a MR16 35W.</td>
<td><img src="image" alt="106-ft. path of egress 2 X 6W MR16 LED" /> Based on an average of 1 foot candle</td>
</tr>
</tbody>
</table>
Highly efficient LEDs provide many cost-saving benefits

<table>
<thead>
<tr>
<th>Series</th>
<th>Thermal Imagery – 150 foot hallway</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL-2LED Series – Commodity LED</td>
<td><img src="image1" alt="Thermal imagery" /> 9 twin lamp heads required.</td>
</tr>
<tr>
<td>Low energy, low maintenance emergency lighting for moderate budget applications</td>
<td></td>
</tr>
</tbody>
</table>

| Provider™ PRO-2N-LA Series – 4W LED | ![Thermal imagery](image2) Only 5 dual lamp heads required. |
| 6V thermoplastic housing protected lamps |

| Premier™ Compact 12MPR20M2LG Series – 5W LED | ![Thermal imagery](image3) Only 3 dual lamp heads required. |
| Thermoplastic housing 12V–20W emergency light |

| Premier™ Compact 12MPR20M2LJ Series – 6W LED | ![Thermal imagery](image4) Only 2 dual lamp heads required. |
| Thermoplastic housing 12V–20W emergency light |

| JS-HP Series JSM36-2L15FM – 15W | ![Thermal imagery](image5) Only 1 dual lamp head required. |
| Thermoplastic housing 12V–72W capacity emergency light |
Circuitry

Advanced Diagnostics circuitry

Self-testing & monitoring diagnostic circuitry
• By incorporating diagnostics features with a high-powered 8-bit microprocessor, our Advanced Diagnostics system ensures unsurpassed reliability in one, totally contained system. In the event of a unit malfunction, the Advanced Diagnostics system produces an audible warning in the form of an intermittent beep and the LED indicator associated with the fault will illuminate continuously. When the problem is acknowledged by depressing the alarm/silence/test button, the alarm is silenced and the LED indicator changes to a flashing mode until the problem is corrected.
• Continually monitors system parameters
• Incorporates state-of-the-art microprocessor technology
• D includes audio and visual service alarms
• DNA non-audible version for visual service alarms only
• Self-testing in accordance with NFPA101, Life Safety Code
  minimum 30 seconds every 30 days, 30 minutes every six months and 90 minutes annually.

Features

Battery failure
• (Red) Illuminates if the battery is shorted or battery voltage drops below preset value. Will also detect incorrect battery (ie. 6VDC vs. 12VDC)

Battery disconnect
• (Red) Illuminates if the battery circuit is open.

Charger failure
• (Red) Illuminates when charger is not functioning properly by monitoring the charger current.

Lamp failure
• (Red) Illuminates when one or more emergency lamps fail. Also monitors remote lamps.

Service alarm
• (Red) Illuminates when a fault is detected that requires a qualified service technician.

AC-on
• (Green) Lit when line voltage is present.

Charger on
• (Amber) Illuminates when charger is recharging the battery.

Alarm silence / manual test switch
• Button is used to acknowledge and silence audible alarms.
• Also functions as a manual test switch to simulate a power failure.

Self testing
• Unit tests itself every thirty days for a minimum 30 seconds, thirty minutes on the sixth month and ninety minutes annually.
• Advanced Diagnostics (AD or ADNA) includes a time delay function, if needed it can be enabled/disabled in the field (15 min) or it can be preset at the factory by including the suffix AD-D* or ADNA-D* (*5 min., or *10 min., or *15 min.)

Pulse Type circuitry

Prolongs the life of a battery through pulse charging
• Emergi-Lite® PulseType circuitry utilizes the latest in solid state design to provide a technically advanced charger combined with features and functions that promote long reliable battery life and excellent unit performance.
• The design of the PulseType circuit takes into account the long periods of inactivity typical of standby emergency equipment. Batteries are kept at full capacity by a pulse charge that allows the battery to cycle continuously. This greatly reduces the problem of grid corrosion and dramatically increases battery performance.
• Emergi-Lite® computer-tests all active components on the circuit boards during assembly. Critical functions such as brownout, low voltage disconnect, and charge voltage are individually monitored and adjusted at the factory.

Features

120/277V input
• Capability to operate with 120Vor 277V input.

Fused output circuit for units with remote capacity
• Emergency units up to 54W have a single fused output circuit. Units over 54W have two fused output circuits supplied standard.

Dual diagnostic indicator lights
• Dual indicators, red and amber continuously monitor the condition of the battery, charge circuit and presence of AC.

Temperature compensation
• At high ambient temperatures, batteries need less charge voltage to recharge.
• At cold temperatures, batteries require a higher charge to maintain full capacity.
• The PulseType charger automatically adjusts the charge voltage to precisely what the batteries require at a given temperature.

Sealed relay
• Sealed relay protects against environmental contaminants.

Low voltage battery disconnect
• The lighting load is disconnected from the battery at 87.5% of nominal battery voltage. This prevents deep discharge damage to the battery.

Brownout protection
• Emergency lamps energized when AC voltage falls to approx. 80% of nominal voltage, the level at which most fluorescent and HID fixtures extinguish.

Battery lockout
• This labor saving feature prevents the battery from discharging when the unit is installed to a non-energized circuit. The battery is electronically locked out until the unit is energized with AC power. Contractors do not have to return to a job site to connect batteries when the building’s main power is turned on. They can install the unit and connect the battery in one convenient operation.

Reverse polarity protection
• A polarized plug is used to connect the battery to the circuit board, thus preventing damage from occurring to the system.

Current limited output (not available on all items, see specification sheet)
• Extends battery life by preventing overheating and battery gassing during recharge.
Popular options

Emergi-Lite® Emergency Lighting Units and Exit Signs are available with a range of options that can be added to enhance performance, simplify testing or adapt emergency battery units or exit signs for use in specific environments. Please refer to individual product pages to verify availability of individual options on specific equipment.

**Voltmeter**
Option provides a visual indication, in the test mode, of the unit’s battery voltage. The good/check meter face allows maintenance personnel to recognize charger and battery function.
Add suffix: -V

**Ammeter**
Option provides an indication of charge current when the unit is in the equalize mode. This verifies charger capability and the current acceptance of the battery.
Add suffix: -A

**Dual circuit (exit signs)**
Option provides two AC input circuits to permit 2 separate AC sources to energize the sign.
Add suffix: -2CKT

**Tamper proof/vandal resistant screws**
Tamper proof screws may be used on certain units to avoid unauthorized entry to circuitry or vandalism.
Add suffix: -VR

**Lamp Disconnect switch**
Option will disconnect lamp load when area is not in use during prolonged power failure. The switch may also be used to reactivate emergency power to remote or unit heads.
Add suffix: -K

**Photocell test switch**
Allows for testing of an emergency battery unit, a self-powered battery back-up exit sign or combination unit by means of illuminating, with a flashlight, a photocell mounted in the bottom of the battery unit. For product compatibility please contact the factory.
Add suffix: -P or -PST depending on series

**Flasher**
The flasher option is used within exit signs to draw additional attention to the exit discharge area. When there is an emergency situation, the exit legend will illuminate as well as begin to flash and admit an audible buzzer thus drawing additional attention to the Exit Sign leading to a exit discharge.
Add suffix: -FA

**Flasher/buzzer**
The flasher/buzzer option is used within exit signs to draw additional attention to the exit discharge area. When there is an emergency situation, the exit legend will illuminate as well as begin to flash and admit an audible buzzer thus drawing additional attention to the Exit Sign leading to a exit discharge.
Add suffix: -FZ

**Fire alarm activated flasher**
Fire alarm activated flasher option is for an exit sign that is wired into the fire alarm system of a building via 24 volt wire. When the fire alarm is activated the exit legend will flash to draw additional attention to the exit discharge area. This flashing option will only activate when the fire system is activated.
Add suffix: -FA

**Fire alarm activated flasher/buzzer**
Fire alarm activated flasher/buzzer option is for an exit sign that is wired into the fire alarm system of a building via 24 volt wire. When the fire alarm is activated, the exit legend will flash and the exit sign will buzz to draw additional attention to the exit discharge area. This option will only activate when the fire system is activated.
Add suffix: -FBF

**Time delay**
Option is designed to be used in areas where HID type lamps are used for normal lighting. As these lamps require several minutes to re-strike and to produce their nominal lighting output, it is necessary to also hold the emergency lighting on for this period, even after the AC utility has been restored. A time delay unit can be helpful in areas where it is difficult to directly access an emergency lighting unit’s test switch. The power to the unit can be briefly switched off and on at the breaker panel, and the maintenance person can then return to the unit and observe a timed emergency operation.
Add suffix: -D3 (15 minutes)

**Damp location**
Option for environments that are subject to moderate amounts of moisture (humidity), and a temperature range between 10°C (50°F) and 40°C (104°F). Example: partially protected exterior areas such as canopies, stairwells, etc.
Add suffix: -DL

**Advanced Diagnostic circuitry (for exit signs)**
Option is designed to continuously monitor the charger assembly, battery and LED assembly current. If a fault is indicated, the external service required indicator will illuminate. The diagnostic/self test will self test for minimum 30 seconds every 30 days, 30 minutes every six months and 90 minutes annually. Meets NFPA 101 Life Safety Code requirements for periodic testing.
Add suffix: -AD
Advanced Diagnostic (non-audible) Add suffix: -ADNA

For complete details refer to page 8.
### Spec Grade products

#### Table of contents

**Architectural collection**

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lux-Ray™ LED Series</td>
<td>16</td>
</tr>
<tr>
<td>Revelation™ Series</td>
<td>18</td>
</tr>
<tr>
<td>Mini-Revelation™ Series</td>
<td>20</td>
</tr>
<tr>
<td>RS Series</td>
<td>22</td>
</tr>
<tr>
<td>TS Series</td>
<td>24</td>
</tr>
<tr>
<td>Prestige™ Edge-Lit Series</td>
<td>26</td>
</tr>
<tr>
<td>Prestige™ X40 Series</td>
<td>28</td>
</tr>
<tr>
<td>Prestige™ DX Series</td>
<td>30</td>
</tr>
<tr>
<td>Prestige™ Floor Proximity Series</td>
<td>32</td>
</tr>
<tr>
<td>Prestige™ Edge-Lit Accessibility Series</td>
<td>34</td>
</tr>
</tbody>
</table>

**Commercial collection**

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premier™ Compact Series</td>
<td>38</td>
</tr>
<tr>
<td>Premier™ Series</td>
<td>40</td>
</tr>
<tr>
<td>Premier™ Combination Series</td>
<td>42</td>
</tr>
<tr>
<td>Premier™ Exit Series</td>
<td>44</td>
</tr>
<tr>
<td>Provider™ PRO-2N/PRO-3N Series</td>
<td>46</td>
</tr>
<tr>
<td>JS-HP Series</td>
<td>48</td>
</tr>
<tr>
<td>JS Series</td>
<td>50</td>
</tr>
<tr>
<td>LC Series</td>
<td>52</td>
</tr>
<tr>
<td>LS Series</td>
<td>54</td>
</tr>
<tr>
<td>X10 LED Series</td>
<td>56</td>
</tr>
<tr>
<td>Prestige™ Economizer Recessed ceiling mount</td>
<td>58</td>
</tr>
<tr>
<td>Prestige™ Economizer Slim profile surface mount</td>
<td>59</td>
</tr>
<tr>
<td>Prestige™ Accessibility Series</td>
<td>60</td>
</tr>
<tr>
<td>Preceptor™ Series</td>
<td>62</td>
</tr>
<tr>
<td>Preceptor™ Recessed Series</td>
<td>63</td>
</tr>
<tr>
<td>Preceptor™ Remote Capacity Series</td>
<td>64</td>
</tr>
<tr>
<td>Special Wording Series</td>
<td>66</td>
</tr>
</tbody>
</table>
Spec Grade products
Table of contents

Industrial collection

- Hazardous locations
  - Important information
    - 70

- NEMA enclosures
  - Various types
    - 71

- HP Series
  - 72

- HPRL Series
  - 74

- Survive-All™ SV Series
  - 76

- Survive-All™ SVX Combination Series
  - 78

- Survive-All™ SVX Series
  - 80

- Survive-All™ EF39 Series
  - 82

- HPH Series
  - 84

- HPHRL Series
  - 86

- Survive-All™ SVH Series
  - 88

- Survive-All™ SVXH Series
  - 90

- Survive-All™ SVX-HZ Series
  - 92

- Survive-All™ EF41 Series
  - 94

- EverLite™ Series
  - 95

- EXC LED Series
  - 96

- EFEP Series
  - 98

- EFXP Series
  - 100
To meet the different needs of applications ranging from high-visibility areas in retail spaces, high-traffic areas in hotel lobbies, and extreme conditions in industrial facilities, Emergi-Lite® Specification Grade products provide a range of specialty emergency lighting equipment and exit signs.
Specification Grade
Emergency Lighting Equipment

Meets specific requirements in retrofit installations, major renovations, and new construction in architectural, commercial, and industrial applications.

- Provide code-compliant path of egress lighting
- Meet photometric requirements with a selection of battery options, lamp types, and configurations
- Maintain aesthetics with elegant designs available in a variety of finishes
- Accommodate challenging installations with flexible mounting options
- Provide NEMA-certified models, NSF-approved products, and explosion-proof units for heavy-duty industrial spaces and highly demanding environments.

The Spec Grade product range includes:
- Architectural lighting
- Commercial lighting
- Industrial lighting

Make Emergi-Lite® your source for modern, stylish, high performance emergency lighting equipment and exit signs.
Spec Grade
Architectural collection

For specifiers and designers who need code-compliant emergency lighting that complements lighting plans and decor

- Use fewer fixtures to provide path of egress lighting with highly efficient LED lamps
- Hide battery units with recessed emergency lighting
- Accommodate challenging installations with T-Bar mounting options
- Complement decor with elegant edge-lit and brushed metal exit signs available in a variety of finishes

For more architectural lighting options, see the full section of Remote Fixtures in this catalog. To use existing lighting as emergency lighting, see Mini Inverters in this catalog.
Table of contents
Spec Grade Architectural

- Lux-Ray™ LED Series: 16
- Revelation™ Series: 18
- Mini-Revelation™ Series: 20
- RS Series: 22
- TS Series: 24

- Prestige™ Edge-Lit Series: 26
- Prestige™ X40 Series: 28
- Prestige™ DX Series: 30
- Prestige™ Floor Proximity Series: 32
- Prestige™ Edge-Lit Accessibility Series: 34
Lux-Ray™ LED Series
Die-cast aluminum LED emergency lighting – interior or exterior

Housing
• Indoor/outdoor suitable for wet location
• Die-cast aluminum housing
• UV-resistant (3” x 1.5”) polycarbonate lens

Mounting
• Wall mount
• 1/2” rigid conduit top entry
• Universal J-box mounting pattern

Lamp type
• Patent-pending light engine: four power LEDs with redundant connections
• 400-640 Lumens
• Color temperature: 5000K
• Optional forward-throw light distribution, for applications of outdoor egress
• Optional high-lumen output: optional dual-mode operation: normal and emergency LED lighting with separate AC inputs

Electronics
• Pulse plus charger
• Low voltage disconnect
• Automatic brownout protection
• Battery lock-out
• Fused output circuit
• Standard Advanced Diagnostics
• 120/277 60Hz

Approval
• UL 924 listed
• NEMA-3R rated for indoor/outdoors cold-weather wet and damp locations: -20 to 40°C (-4 to 104°F)

Warranty
• Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>Normal lighting</th>
<th>Emergency lighting</th>
<th>6-12VDC remote</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current (max)</td>
<td>Power (max)</td>
<td>Current (max)</td>
</tr>
<tr>
<td>AC, 2AC, ACDC, DC (remote)</td>
<td>0.12/0.08A</td>
<td>12W</td>
<td>0.12/0.08A</td>
</tr>
<tr>
<td>AC-H, 2AC-H, ACDC-H, DC-H</td>
<td>0.18/0.11A</td>
<td>18W</td>
<td>0.18/0.11A</td>
</tr>
<tr>
<td>ACSD, SD, SD-H</td>
<td>0.12/0.06A</td>
<td>12W</td>
<td>0.05/0.02A</td>
</tr>
<tr>
<td>SD-CW</td>
<td>–</td>
<td>–</td>
<td>0.15/0.07A</td>
</tr>
<tr>
<td>ACSD-CWP, -CWRC1</td>
<td>–</td>
<td>–</td>
<td>0.22/0.10A</td>
</tr>
</tbody>
</table>

1Note: ACSD cold weather models must be powered only from the unswitched emergency AC line

Colors

Black
Dark bronze (painted)
Off-white
Platinum gray
Dimensions
Dimensions are approximate and subject to change.

Photometric performance – Forward throw

Photometric performance – Wide beam

Table A – Spacing for minimum illumination = 1FC (1 foot-candle)

<table>
<thead>
<tr>
<th>Model type</th>
<th>Mounting height</th>
<th>Lumen</th>
<th>Color temperature</th>
<th>Single unit</th>
<th>Center-to-center Width X length (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>9'</td>
<td>400</td>
<td>5000K</td>
<td>4' × 28'</td>
<td>4' × 32'</td>
</tr>
<tr>
<td>With option -H</td>
<td>11'</td>
<td>550</td>
<td></td>
<td>4' × 32'</td>
<td>4' × 40'</td>
</tr>
<tr>
<td>With option -FT</td>
<td>12'</td>
<td>460</td>
<td></td>
<td>4' × 22'</td>
<td></td>
</tr>
<tr>
<td>With option -FTH</td>
<td>15'</td>
<td>640</td>
<td></td>
<td>4' × 27'</td>
<td></td>
</tr>
</tbody>
</table>

Table B – Spacing for NFPA101 – Average = 1FC (1 foot-candle)

<table>
<thead>
<tr>
<th>Model type</th>
<th>Mounting height</th>
<th>Lumen</th>
<th>Color temperature</th>
<th>Single unit</th>
<th>Center-to-center Width X length (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>9'</td>
<td>400</td>
<td>5000K</td>
<td>6' × 50'</td>
<td>4' × 32'</td>
</tr>
<tr>
<td>With option -H</td>
<td>11'</td>
<td>550</td>
<td></td>
<td>6' × 60'</td>
<td>4' × 40'</td>
</tr>
<tr>
<td>With option -FT</td>
<td>12'</td>
<td>460</td>
<td></td>
<td>3' × 70'</td>
<td></td>
</tr>
<tr>
<td>With option -FTH</td>
<td>15'</td>
<td>640</td>
<td></td>
<td>6' × 40'</td>
<td></td>
</tr>
</tbody>
</table>

How to order

Example: BZLUXACSD-RC

1 For ACSD model only, remote control keypad (TB-RC1-E) ordered separately
Revelation™ Series
The unseen solution – generator capable 12V up to 100W capacities

Housing
- Galvanized steel back-box
- Easy access to internal components
- Head assembly door and trim plate powder coated in a white finish
- Finish can be customized on site with paint or wallpaper
- Choice of various 12 volt MR16 LED lamp wattages
- Complete 360° head assembly door rotation
- Slip gear mechanism protects unit and objects against forcible stops

Mounting
- Recessed mount into ceiling or wall with cavities
- Special bar hangers included for installation in sheet rock or T-bar ceilings
- Can be installed on the wall stud or ceiling beam with simple, U-shape bracket
- Head assembly includes keyhole slot and quick-connect plugs for easy installation

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Advanced Diagnostics
- 120/277 60Hz

Choice of sealed maintenance-free battery
- 12V lead-calcium battery
- 12V nickel-cadmium battery

Approvals
- CSA-US (to UL 924 standards)
- NYC approved

Warranty
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG</td>
<td>55'</td>
<td>43'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
<td>56'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
<td>85'</td>
</tr>
<tr>
<td>50H</td>
<td>160'</td>
<td>171'</td>
</tr>
</tbody>
</table>

Center-to-center spacing
Mounting height
Photometric spacing for 1FC average
6ft
Dimensions
Dimensions are approximate and subject to change.

Charger & battery compartment:
For use in walls or ceilings with a cavity, not for use in block walls or solid ceilings.

---

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>Input current</th>
<th>Input power</th>
<th>Input current</th>
<th>Input power</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V</td>
<td>0.25A</td>
<td>30W</td>
<td>0.1A</td>
<td>11W</td>
</tr>
<tr>
<td>277V</td>
<td>0.12A</td>
<td>30W</td>
<td>0.05A</td>
<td>11W</td>
</tr>
</tbody>
</table>

1 Stand-by power consumption is 50% lower for lead-calcium batteries

---

Unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>Watts to 87-1/2% of rated battery voltage</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>4 hrs</th>
<th>8 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTM40, RTN40</td>
<td>40= 12V-40W, 70= 12V-70W, 100= 12V-100W</td>
<td>40</td>
<td>30</td>
<td>24</td>
<td>–</td>
</tr>
<tr>
<td>RTM70, RTN70</td>
<td>70= 12V-70W</td>
<td>70</td>
<td>50</td>
<td>40</td>
<td>24</td>
</tr>
<tr>
<td>RTM100, RTN100</td>
<td>100= 12V-100W</td>
<td>100</td>
<td>70</td>
<td>50</td>
<td>40</td>
</tr>
</tbody>
</table>

1 National Electrical Code specification

---

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote test switch (metal face plate)</td>
<td>RTS</td>
</tr>
<tr>
<td>Remote test switch (plastic face plate)</td>
<td>RTS-1</td>
</tr>
</tbody>
</table>

---

How to order – Battery unit / AC remote fixture

<table>
<thead>
<tr>
<th>Series</th>
<th>Battery type</th>
<th>Unit capacity</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT</td>
<td>M= Lead-cadmium</td>
<td>40= 12V-40W</td>
<td>-2 (LG)= 12V-4W, MR16 LED</td>
<td>AD= Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td></td>
<td>N= Ni-Cd</td>
<td>70= 12V-70W</td>
<td>-2 (LI)= 12V-5W, MR16 LED</td>
<td>ADDA= Advanced Diagnostics (non-audible)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100= 12V-100W</td>
<td>-2 (LJ)= 12V-6W, MR16 LED</td>
<td>DL= Damp location</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2 (50H)= 50W, MR16 high lumen output</td>
<td></td>
<td>D3= Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X= Back box shipped separately</td>
</tr>
</tbody>
</table>

Example: RTM100-2(LJ)-D3

<table>
<thead>
<tr>
<th>Series</th>
<th>Input voltage</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTG= Remote AC generator</td>
<td>1= 120VAC, 60Hz</td>
<td>-2(LG)= 12V-4W, MR16 LED</td>
<td>DL= Damp location</td>
</tr>
<tr>
<td></td>
<td>2= 277VAC, 60Hz</td>
<td>-2(LJ)= 12V-5W, MR16 LED</td>
<td>X= Back box shipped separately</td>
</tr>
</tbody>
</table>

Example: RTG2-2(LG)-DL

---

\(^1\)AD & ADDA include a time delay feature that can be enabled/disabled in the field or set by the factory

\(^2\)Available on all models except Ni-Cd 100W
Mini-Revelation™ Series
The full retrofit unseen solution – 12V-40W capacities

Housing
- Galvanized steel back-box
- Easy access to internal components
- Head assembly door and trim plate powder coated in a white finish
- Finish can be customized on site with paint or wallpaper
- Choice of various 12 volt MR16 LED lamp wattages
- Complete 360° head assembly door rotation
- Slip gear mechanism protects unit and objects against forcible stops

Mounting
- Recessed wall with cavity mount (retrofit into finished wall)
- Designed to install into an 8-1/4” by 5-3/4” inch opening
- Key-hole slot for ease of installation

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Advanced Diagnostics
- 120/277 60Hz

Choice of sealed maintenance-free battery
- 12V lead-calcium battery
- 12V nickel-cadmium battery

Approvals
- CSA-US (to UL 924 standards)
- NYC approved

Warranty
- Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG</td>
<td>55’</td>
<td>43’</td>
</tr>
<tr>
<td>LI</td>
<td>71’</td>
<td>56’</td>
</tr>
<tr>
<td>LJ</td>
<td>100’</td>
<td>85’</td>
</tr>
<tr>
<td>50H</td>
<td>160’</td>
<td>171’</td>
</tr>
</tbody>
</table>
ARCHITECTURAL COLLECTION – MINI-REVELATION™ SERIES

Dimensions
Dimensions are approximate and subject to change.

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC input</th>
<th>Input current</th>
<th>Input power</th>
<th>Input current</th>
<th>Input power</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRT40</td>
<td>120VAC</td>
<td>0.25A</td>
<td>30W</td>
<td>0.1A</td>
<td>11W</td>
</tr>
<tr>
<td></td>
<td>277VAC</td>
<td>0.12A</td>
<td>30W</td>
<td>0.05A</td>
<td>11W</td>
</tr>
<tr>
<td>MRTG</td>
<td>120VAC</td>
<td>0.95A</td>
<td>110W</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>277VAC</td>
<td>0.45A</td>
<td>110W</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

1 Stand-by power consumption is 50% lower for lead-calcium batteries
2 Maximum power when equipped with 2 x 50W lamps (generator unit)

Unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>Watts to 87-1/2% of rated battery voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-1/2 hrs</td>
</tr>
<tr>
<td>MRT40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>40</td>
</tr>
</tbody>
</table>

1 National Electrical Code specification

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote test switch (metal face plate)</td>
<td>RTS</td>
</tr>
<tr>
<td>Remote test switch (plastic face plate)</td>
<td>RTS-1</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Battery type</th>
<th>Unit capacity</th>
<th>AC input</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery unit= MRT</td>
<td>M= Lead-calcium</td>
<td>40= 12V-40W</td>
<td>Blank= 120/277VAC</td>
<td>-2 (LG)= MR16 LED, 12V-4W</td>
<td>-AD= Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td></td>
<td>N= Nickel-cadmium</td>
<td></td>
<td></td>
<td>-2 (LI)= MR16 LED, 12V-5W</td>
<td>-ADNA= Advanced Diagnostics (non-audible)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2 (LJ)= MR16 LED, 12V-6W</td>
<td>-D3= Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2 (50H)= 50W, high lumen output</td>
<td>-DL= Damp location (only MRTN40, MRTH40)</td>
</tr>
<tr>
<td>Generator unit= MRT</td>
<td>G= Remote AC generator</td>
<td>Max. 100W</td>
<td>1= 120VAC 2= 277VAC</td>
<td>-2 (LG)= 12V-4W, MR16 LED</td>
<td>-DL= Damp location</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2 (LI)= 12V-5W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2 (LJ)= 12V-6W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-2 (50H)= 50W, high lumen output</td>
<td></td>
</tr>
</tbody>
</table>

1 AD & ADNA include a time delay feature that can be enabled/disabled in the field or set by the factory
2 Available on all models except Ni-Cd 100W

Example: MRTM40-2(LJ)-ADNA
RS Series
Designed for fully recessed installation in walls or ceilings

Housing
• Steel housing
• Standard off-white finish, optional black finish
• Lighting heads, available in thermoplastic or decorative
die-cast aluminum
• Choice of MR16 LED lamp wattages

Mounting
• Fully recessed ceiling or wall-mount
• Hanger bars included for lay-in installation in T-bar grid
• Suitable for sheet rock installation

Electronics
• Pulse plus charger
• Low voltage disconnect
• Automatic brownout protection
• Battery lock-out
• Fused output circuit
• Optional Advanced Diagnostics
• 120/277 60Hz

Choice of sealed maintenance-free battery
• 6V or 12V lead-calcium battery
• 6V or 12V nickel-cadmium battery

Approvals
• UL 924 listed
• NYC approved

Warranty
• Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7' mounting height</td>
</tr>
<tr>
<td>LA</td>
<td>43'</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
</tr>
</tbody>
</table>
**Dimensions**
Dimensions are approximate and subject to change.

**Unit rating**

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1 1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>6</td>
<td>RSM18</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td>–</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>RSM27</td>
<td>27</td>
<td>18</td>
<td>14</td>
<td>10</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>RSM36</td>
<td>36</td>
<td>25</td>
<td>20</td>
<td>14</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12RSM36</td>
<td>36</td>
<td>25</td>
<td>20</td>
<td>14</td>
<td>36</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>6</td>
<td>RSC18</td>
<td>18</td>
<td>12</td>
<td>10</td>
<td>–</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>RSC25</td>
<td>25</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12RSC36</td>
<td>36</td>
<td>21</td>
<td>15</td>
<td>12</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12RSC50</td>
<td>50</td>
<td>36</td>
<td>25</td>
<td>18</td>
<td>50</td>
</tr>
</tbody>
</table>

**Accessories** (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard</td>
<td>WG6-E</td>
</tr>
<tr>
<td>Remote test switch (metal face plate)</td>
<td>RTS</td>
</tr>
<tr>
<td>Remote test switch (plastic face plate)</td>
<td>RTS-1</td>
</tr>
</tbody>
</table>

**How to order**

<table>
<thead>
<tr>
<th>Color</th>
<th>Series/battery type</th>
<th># of heads</th>
<th>Head style</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank = Factory white</td>
<td>Lead-calcium</td>
<td>-0 = No head</td>
<td>10 = EF10 mini plastic</td>
<td>LA = 6V-4W, MR16 LED</td>
<td>Blank = No options</td>
</tr>
<tr>
<td>B = Black enclosure</td>
<td>RSM18 = 6V-18W</td>
<td>-1 = One head</td>
<td>150 = EF150 deco heads</td>
<td>LG = 12V-4W, MR16 LED</td>
<td>-AD = Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td></td>
<td>RSM27 = 6V-27W</td>
<td>-2 = Two heads</td>
<td>MR16</td>
<td>LI = 12V-5W, MR16 LED</td>
<td>-ADNA = Advanced Diagnostics (non-audible)</td>
</tr>
<tr>
<td></td>
<td>RSM36 = 6V-36W</td>
<td></td>
<td>MR16</td>
<td>LJ = 12V-6W, MR16 LED</td>
<td>-D3 = Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td>12RSM36 = V12V-36W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>RSC18 = 6V-18W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RSC25 = 6V-25W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12RSC36 = 12V-36W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12RSC50 = 12V-50W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: BRSC18-210LA-AD
**TS Series**

Designed for unobtrusive use in T-bar ceilings

---

**Housing**
- Steel housing
- Standard off-white finish, optional black finish
- Lighting heads, available in thermoplastic or decorative die-cast aluminum
- Choice of MR16 LED lamp wattages

**Mounting**
- Fully recessed ceiling
- Hanger bars included for lay-in installation in t-bar grid

**Electronics**
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

**Choice of sealed maintenance-free battery**
- 6V, 12 or 24V lead-calcium battery
- 6V, 12 or 24V nickel-cadmium battery

**Approvals**
- UL 924 listed
- NYC approved

**Warranty**
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

---

**Photometry performance**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>43'</td>
<td>36'</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
<td>43'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
<td>56'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
<td>85'</td>
</tr>
<tr>
<td>LL</td>
<td>56'</td>
<td>44'</td>
</tr>
</tbody>
</table>

---

[Photometric spacing for 1FC average](#)
Dimensions
Dimensions are approximate and subject to change.

Cabinet information

<table>
<thead>
<tr>
<th>Cabinet size</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>3-1/4&quot; x 4-5/8&quot;</td>
</tr>
<tr>
<td>L</td>
<td>5-5/8&quot; x 7-1/8&quot;</td>
</tr>
</tbody>
</table>

Unit rating

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1 1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
<th>Cabinet size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>6</td>
<td>TSM18</td>
<td>18</td>
<td>12</td>
<td>10</td>
<td>7</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>TSM27</td>
<td>18</td>
<td>14</td>
<td>10</td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>TSM36</td>
<td>25</td>
<td>20</td>
<td>14</td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>TSM54</td>
<td>28</td>
<td>21</td>
<td></td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>TSM81</td>
<td>42</td>
<td>30</td>
<td></td>
<td></td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>TSM110</td>
<td>56</td>
<td>40</td>
<td></td>
<td></td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12TSM36</td>
<td>20</td>
<td>14</td>
<td></td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12TSM54</td>
<td>28</td>
<td>21</td>
<td></td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>24TSM110</td>
<td>56</td>
<td>40</td>
<td></td>
<td></td>
<td>L</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>6</td>
<td>TSC18</td>
<td>12</td>
<td>9</td>
<td>6</td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>TSC25</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12TSC36</td>
<td>21</td>
<td>15</td>
<td>12</td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12TSC50</td>
<td>25</td>
<td>18</td>
<td>18</td>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>24TSC100</td>
<td>50</td>
<td>37</td>
<td></td>
<td></td>
<td>L</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote test switch (metal face plate)</td>
<td>RTS</td>
</tr>
<tr>
<td>Remote test switch (plastic face plate)</td>
<td>RTS-1</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Series/battery type/capacity</th>
<th># of heads</th>
<th>Head style</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= Factory white</td>
<td>Lead-calcium</td>
<td>-0= No head -1= One head -2= Two heads -3= Three heads</td>
<td>10= EF10 mini plastic MR16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B= Black enclosure</td>
<td>TSM18= 6V-18W lead-calcium</td>
<td>150= EF150 heads MR16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TSM27= 6V-27W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TSM36= 6V-36W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TSM54= 6V-54W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TSM81= 6V-81W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TSM110= 6V-110W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12TSM36= 12V-36W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12TSM54= 12V-54W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12TSM110= 12V-110W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24TSM110= 24V-110W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>TSC18= 6V-18W nickel-cadmium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TSC25= 6V-25W nickel-cadmium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12TSC36= 12V-36W nickel-cadmium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12TSC50= 12V-50W nickel-cadmium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24TSC100= 24V-100W nickel-cadmium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>-AD= Advanced Diagnostics</td>
</tr>
<tr>
<td>(audible)</td>
</tr>
<tr>
<td>-ADNA= Advanced Diagnostics</td>
</tr>
<tr>
<td>(non-audible)</td>
</tr>
<tr>
<td>-D3= Time delay (15 minutes)</td>
</tr>
<tr>
<td>-NEX= Nexus® wired</td>
</tr>
<tr>
<td>(consult your sales representative)</td>
</tr>
<tr>
<td>-NEXRF= Nexus® wireless</td>
</tr>
<tr>
<td>(consult your sales representative)</td>
</tr>
</tbody>
</table>

Example: BRSC18-210LA-AD

1 Minimum lamp load required: 20% of unit capacity. Not available with 100W Ni-Cd 24V.
**Prestige™ Edge-Lit Series**  
Premium die-cast aluminum exit sign

**Construction**  
- Housing, trim plate, trim ring and canopy made of die-cast aluminum  
- U-shaped clear acrylic Legend panel features laser-etched letters and chevrons  
- 6 inch EXIT lettering legend, available in red or green  
- 8 inch EXIT lettering legend, available in red  
- Choice of finishes: white, black or brushed aluminum, polished brass, polished chrome or bronze

**Mounting**  
- Modular design allows for surface or recessed mount  
- Canopy included for surface wall, end or ceiling mount applications  
- Trim ring included for recessed wall or ceiling mount applications  
- Housing provided with conduit knock-out 1/2", top, back and end  
- (C) circular or (A) angular trim plate used for surface or recessed wall or ceiling mount applications  
- Hanger bars included for lay-in installation in T-bar grid

**Special wording panels**  
- Available. Contact your sales representative with your design requirements

**Electronics**  
- Optional Advanced Diagnostics  
- Optional Nexus® monitoring system  
- 120-277 60Hz

**Approvals**  
- UL 924 listed  
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

**Warranty**  
- Unit has a five-year limited warranty  
- Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

**Mounting configurations**

- Recessed wall mount  
- Recessed ceiling mount  
- Surface wall mount  
- Surface ceiling mount  
- Surface end mount

**Trim plates**

- Circular trim plate  
- Angular trim plate

**Housing color**

- Brushed aluminum  
- Polished brass  
- White  
- Polished chrome  
- Dark bronze (painted)  
- Black

**Arrow (chevron) designation**

- Arrow right (R)  
- Arrow left (L)  
- Double arrow (D)  
- Arrow right & left (RL) represents each side of a double face panel

Wording and chevrons not to scale. For illustration purposes only.
**Dimensions**
Dimensions are approximate and subject to change.

![Dimensions Diagram]

**Power consumption**

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Less than 1.4W</td>
</tr>
<tr>
<td>AC/DC-remote</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Less than 1.4W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Less than 2.3W</td>
</tr>
<tr>
<td>Self-powered diagnostic</td>
<td>120/277VAC, 50/60Hz</td>
<td>Less than 2.3W</td>
</tr>
</tbody>
</table>

**Accessories (order as a separate item)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>White pendant</td>
<td>P*-WT</td>
</tr>
<tr>
<td>Black pendant</td>
<td>P*-BK</td>
</tr>
<tr>
<td>Gray pendant</td>
<td>P*-GY</td>
</tr>
</tbody>
</table>

1 Custom pendant lengths and colors available, specify (12", 24", 36", etc.)

**How to order**

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series</th>
<th>Faces</th>
<th>Designation</th>
<th>Legend color</th>
<th>Background color</th>
<th>Arrows</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= Brushed aluminum</td>
<td>LX= AC-only</td>
<td>1= Single face</td>
<td>N= New design</td>
<td>R= Red</td>
<td>C= Clear (single face only)</td>
<td>Blank= No arrow</td>
</tr>
<tr>
<td>W= White</td>
<td>L= Angular</td>
<td>G= Green</td>
<td>W= White</td>
<td>M= Mirror</td>
<td>D= Double arrow</td>
<td>L= Arrow left</td>
</tr>
<tr>
<td>B= Black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R= Arrow right</td>
<td>RL= Right &amp; left</td>
</tr>
<tr>
<td>PB= Polished brass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH= Polished chrome</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BR= Bronze</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trim</th>
<th>Mounting</th>
<th>Options</th>
<th>Legend size</th>
</tr>
</thead>
<tbody>
<tr>
<td>-C= Circular</td>
<td>Blank= Universal mount</td>
<td>Blank= No option</td>
<td>Blank= 6&quot; EXIT legend</td>
</tr>
<tr>
<td>-A= Angular</td>
<td></td>
<td>-NEX= Nexus® wired¹ (consult your sales representative)</td>
<td>-B= 8&quot; EXIT legend (red only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-NEXRF= Nexus® wireless¹ (consult your sales representative)</td>
<td>-LP= Panel shipped separately</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-D= Self-test and diagnostic¹</td>
<td>-X= Back box shipped separately</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-DC= AC/DC remote 6-24 VDC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-FA= Fire alarm¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-FZ= Flasher &amp; buzzer¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2CKT= Two circuit, AC only</td>
<td></td>
</tr>
</tbody>
</table>

Example: WLXN2N8RWRL-A-D

1 Self-powered only
Prestige™ X40 Series
Edge-lit recessed ceiling-mount exit sign

Construction
- Trim plate, trim ring and canopy made of die-cast aluminum
- U-shaped clear acrylic Legend panel features laser-etched letters and chevrons
- 6 inch EXIT lettering legend, available in red or green
- 8 inch EXIT lettering legend, available in red
- Choice of finishes: white, black or brushed aluminum, polished brass, polished chrome or bronze

Mounting
- Hanger bars included for lay-in installation in t-bar grid
- Housing provided with conduit knock-out 1/2", top, back and end
- Flat trim plate used for recessed ceiling mount only applications

Special wording panels
- Available. Contact your sales representative with your design requirements

Electronics
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120-277 60Hz

Approvals
- UL 924 listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
- Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277VAC, 60Hz</td>
<td>Less than 1.4W</td>
</tr>
<tr>
<td>AC/DC-remote</td>
<td>120 to 277VAC, 60Hz</td>
<td>Less than 1.4W, 6 to 24VDC, Less than 1.4W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277VAC, 60Hz</td>
<td>Less than 2.3W, Ni-Cd battery, Min. 90 minutes</td>
</tr>
<tr>
<td>Self-powered diagnostic</td>
<td>120/277VAC, 60Hz</td>
<td>Less than 2.3W, Ni-Cd battery, Min. 90 minutes</td>
</tr>
</tbody>
</table>

Housing color
- Brushed aluminum
- White
- Black
- Polished brass
- Polished chrome
- Dark bronze (painted)
Dimensions
Dimensions are approximate and subject to change.

Arrow (chevron) designation

Arrow right (R) | Arrow left (L) | Double arrow (D) | Arrow right & left (RL) represents each side of a double face panel

Wording and chevrons not to scale. For illustration purposes only.

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special wording</td>
<td></td>
</tr>
<tr>
<td>Contact your sales representative</td>
<td></td>
</tr>
<tr>
<td>Two 27-inch adjustable bar hangers1</td>
<td>TBH</td>
</tr>
</tbody>
</table>

1 Bar hangers supplied with unit, order as replacement only

How to order

<table>
<thead>
<tr>
<th>Housing</th>
<th>Series</th>
<th>Faces</th>
<th>Designation</th>
<th>Legend color</th>
<th>Background color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank = Brushed aluminum</td>
<td>LX= AC-only</td>
<td>40= Less panel</td>
<td>N= New design</td>
<td>R= Red</td>
<td>C= Clear (single face only)</td>
</tr>
<tr>
<td>W= White</td>
<td>LSNX= Self-powered</td>
<td>42= Single face</td>
<td>G= Green</td>
<td>W= White</td>
<td>M= Mirror</td>
</tr>
<tr>
<td>B= Black</td>
<td></td>
<td>43= Double face</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PB= Polished brass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH= Polished chrome</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BR= Bronze</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arrows</th>
<th>Options</th>
<th>Legend size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank = No arrow</td>
<td>Blank= No option</td>
<td>Blank= 6&quot; EXIT legend</td>
</tr>
<tr>
<td>D= Double arrow</td>
<td>-AD= Advanced Diagnostics (non-audible)1</td>
<td>-B= 8&quot; EXIT legend (red only)</td>
</tr>
<tr>
<td>L= Arrow left</td>
<td>-NEX= Nexus® wired1</td>
<td>-LP= Panel shipped separately</td>
</tr>
<tr>
<td>R= Arrow right</td>
<td>-NEXRF= Nexus® wireless1</td>
<td>-X= Back box shipped separately</td>
</tr>
<tr>
<td>RL= Right &amp; left (double face)</td>
<td>-DC= AC/DC remote 6-24 VDC</td>
<td></td>
</tr>
<tr>
<td>UA= Universal field installed arrows</td>
<td>-FA= Fire alarm1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-FZ= Flasher &amp; buzzer1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-2CKT= Two circuit, AC only</td>
<td></td>
</tr>
</tbody>
</table>

Example: WLSNX42NRWR-AD

1 Self-powered only
Prestige™ DX Series
Die-cast exit sign

Construction
- Faceplate, backplate and canopy are made of die-cast aluminum
- 6 inch EXIT lettering legend, available in red or green
- 8 inch EXIT lettering legend, available in red
- Choice of finishes: white, black, brushed aluminum or dark bronze

Mounting
- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-box mounting

Special wording panel
- Available. Contact your sales representative with your design requirements

Electronics
- Standard Advanced Diagnostics on DXN
- Optional Nexus® monitoring system
- 120-277 60Hz

Approvals
- CSA-US (To UL 924 standards)
- Damp location optional (50°F to 104°F)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
- Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

---

Power consumption

<table>
<thead>
<tr>
<th>Model 6”</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>–</td>
</tr>
<tr>
<td>AC/DC-remote</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>6 to 48VDC</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Nickel-cadmium battery Min. 90 minutes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model 8”</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>–</td>
</tr>
<tr>
<td>AC/DC</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>6 to 24VDC 1.6W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Nickel-cadmium battery Min. 90 minutes</td>
</tr>
</tbody>
</table>

Color frame/faceplate colors

- Black
- White
- Brushed aluminum
- Dark bronze (painted)
**Dimensions**
Dimensions are approximate and subject to change.

![Dimensions Diagram]

**Cabinet information**

<table>
<thead>
<tr>
<th>Letters</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>6”</td>
<td>8-7/8”</td>
</tr>
<tr>
<td>8”</td>
<td>10-1/2”</td>
</tr>
</tbody>
</table>

**Accessories (order as a separate item)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>White pendant</td>
<td>PDW¹</td>
</tr>
<tr>
<td>Black pendant</td>
<td>PDB¹</td>
</tr>
<tr>
<td>Pendant mount gray</td>
<td>PDEG¹</td>
</tr>
<tr>
<td>Wire guard (wall mount) (6 in.)</td>
<td>WGL2-E</td>
</tr>
<tr>
<td>Wire guard (ceiling mount) (6 in.)</td>
<td>WGL5-E</td>
</tr>
<tr>
<td>Wire guard (end mount) (6 in.)</td>
<td>WGL5-E</td>
</tr>
</tbody>
</table>

¹Specify pendant length (12", 24", 36", etc.)

**How to order**

<table>
<thead>
<tr>
<th>Color frame/faceplate</th>
<th>Series</th>
<th># of faces</th>
<th>Legend color</th>
<th>Letters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= Black/brushed aluminum</td>
<td>DXN= Self-powered unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WW= White/white</td>
<td>DX= AC/DC¹</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA= White/brushed aluminum</td>
<td>1= Single face</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BZ= Bronze/bronze</td>
<td>2= Double face</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BB= Black/black</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA= All brushed aluminum</td>
<td>R= Red</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>G= Green</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blank= 6” letters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B= 8” letters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Open face²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RW= Red on white</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GW= Green on white</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnostic options</th>
<th>Options</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= Standard</td>
<td>Blank= Standard</td>
<td></td>
</tr>
<tr>
<td>NEX= Nexus® wired</td>
<td>DL= Damp location</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VR= Vandal resistant screws</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VR1= Polycarbonate shield with tamper proof screws</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2CKT= 2 Circuit (120/120 or 277/277, AC only)³</td>
<td></td>
</tr>
</tbody>
</table>

Example: DXN1R-N

¹Not available with Nexus® wired option
²Open face required for special wording
³Not required for 8” letters
Prestige™ Floor Proximity Series
Master with remote floor proximity LED exit

Construction
• DX, DXN “Master” exit faceplate, backplate and canopy are made of die-cast aluminum
• DX, DXN offers 6 inch EXIT lettering legend, available in Red or Green
• LL “Floor Proximity” exit faceplate is made of die-cast aluminum; backbox is made of steel
• LL offers 6 inch EXIT lettering legend, available in red or green
• Choice of finishes: white, black or brushed aluminum
• Red or green long-life light emitting diodes (LED) illumination

Mounting
• DX, DXN surface mount only
• Canopy included for ceiling mount applications
• Backplate features universal knockouts for a standard 4 inch junction box, used in wall mount applications
• LL surface mount or recessed mount
• Single face model only

Chevrons
• DX, DXN faceplate includes two field-selectable, knock-out chevron indicators
• LL faceplate does not include chevron indicators

Self-Diagnostics
• DXN self-powered model standard with Advanced Diagnostics

Special wording panel
• Not available

Electronics
• Standard Advanced Diagnostics on DXN
• Optional Nexus® monitoring system
• 120-277 60Hz

Approvals
• CSA-US (to UL 924 standards)
• Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
• Unit has a five-year limited warranty
• Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

<table>
<thead>
<tr>
<th>Color</th>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>AC-only</td>
<td>120/277VAC</td>
<td>1.3W</td>
</tr>
<tr>
<td></td>
<td>AC-2 circuit</td>
<td>120/277VAC</td>
<td>2.6W</td>
</tr>
<tr>
<td></td>
<td>Self-powered</td>
<td>120/277VAC</td>
<td>3.8W</td>
</tr>
<tr>
<td>Green</td>
<td>AC-only</td>
<td>120/277VAC</td>
<td>1W</td>
</tr>
<tr>
<td></td>
<td>AC-2 circuit</td>
<td>120/277VAC</td>
<td>3.3W</td>
</tr>
<tr>
<td></td>
<td>Self-powered</td>
<td>120/277VAC</td>
<td>5W</td>
</tr>
</tbody>
</table>

Housing colors

Brushed aluminum
White
Black
**Dimensions**
Dimensions are approximate and subject to change.

<table>
<thead>
<tr>
<th>Self-powered/AC-only master</th>
<th>Floor proximity slave surface mount</th>
<th>Floor proximity slave recessed mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-powered/AC-only master</td>
<td>Floor proximity slave surface mount</td>
<td>Floor proximity slave recessed mount</td>
</tr>
<tr>
<td>DXN1G-M-N</td>
<td>LLGS</td>
<td>LLGR</td>
</tr>
<tr>
<td>DX1G-M-N</td>
<td>LLRS</td>
<td>LLRR</td>
</tr>
</tbody>
</table>

**Exit**

**How to order for a typical application:**

**Self-powered master with floor proximity unit**
- 120/277 Volt input
- Low voltage wire
- Floor proximity Surface or recessed

**Example model #: LLGS**

**AC-only master with floor proximity unit 2 circuit application**
- 120/277 Volt input 2 circuit
- Floor proximity Surface or recessed

**Example model #: LLGS**

**Features (optional)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vandal-resistant shield and screws</td>
<td>VR1</td>
</tr>
</tbody>
</table>

**How to order – self-powered master (unit for above door)**

<table>
<thead>
<tr>
<th>Color option prefix</th>
<th>Series</th>
<th>Faces</th>
<th>Stencil face lamp color</th>
<th>Master unit</th>
<th>Standard series designator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>DXN</td>
<td>1 Single face</td>
<td>R= Red</td>
<td>-M</td>
<td>-N</td>
</tr>
<tr>
<td>WW</td>
<td></td>
<td>2 Double face</td>
<td>G= Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BB</td>
<td></td>
<td></td>
<td>RW= Red/white</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RR</td>
<td></td>
<td></td>
<td>GW= Green/white</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:** DXN1G-M-N

**How to order – AC-only master (unit for above door)**

<table>
<thead>
<tr>
<th>Color option prefix</th>
<th>Series</th>
<th>Faces</th>
<th>Stencil face</th>
<th>Master unit</th>
<th>Option</th>
<th>Standard series designator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>DX</td>
<td>1 Single face</td>
<td>R= Red</td>
<td>-M</td>
<td>Blank= AC only</td>
<td>-N</td>
</tr>
<tr>
<td>WW</td>
<td></td>
<td>2 Double face</td>
<td>G= Green</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BB</td>
<td></td>
<td></td>
<td>RW= Red/white</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RR</td>
<td></td>
<td></td>
<td>GW= Green/white</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:** DX1G-M-2CKT-N

**How to order – floor proximity unit (unit on side of door)**

<table>
<thead>
<tr>
<th>Color option prefix</th>
<th>Series</th>
<th>Stencil face lamp color</th>
<th>Mounting</th>
<th>Option</th>
<th>Standard series designator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>LL</td>
<td>R= Red</td>
<td>R= Recessed</td>
<td>-VR1= Vandal-resistant screws/ polycarbonate shield</td>
<td>-VR1</td>
</tr>
<tr>
<td>W</td>
<td></td>
<td>G= Green</td>
<td>S= Surface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>RW= Red/white</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>GW= Green/white</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:** LLGS-VR1

1 Open face required for special wording (please contact your sales representative)
Prestige™ Edge-Lit Accessibility Series
Premium die-cast aluminum exit sign with international symbol of accessibility

**Construction**
- Housing, trim plate, trim ring and canopy made of die-cast aluminum
- U-shaped clear acrylic Legend panel features laser-etched letters
- 6 inch EXIT lettering legend, with accessibility sign in green
- Choice of finishes: white, black or brushed aluminum, polished brass, polished chrome or bronze

**Mounting**
- Modular design allows for surface or recessed mount
- Canopy included for surface wall, end or ceiling mount applications
- Trim ring included for recessed wall or ceiling mount applications.
- Housing provided with conduit knock-out 1/2", top, back and end
- (C) circular or (A) angular trim plate used for surface or recessed wall or ceiling mount applications
- Hanger bars included for lay-in installation in T-bar grid

**Special wording panels**
- Available. Contact your sales representative with your design requirements

**Electronics**
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120-277 60Hz

**Approvals**
- UL 924 listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

**Warranty**
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

**Housing color**
- Brushed aluminum
- White
- Black
- Polished brass
- Polished chrome
- Dark bronze (painted)
**Dimensions**
Dimensions are approximate and subject to change.

---

**Power consumption**

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>AC/DC-remote</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277VAC, 50/60Hz</td>
<td>Less than 3.5W</td>
</tr>
<tr>
<td>Self-powered diagnostic</td>
<td>120/277VAC, 50/60Hz</td>
<td>Less than 3.5W</td>
</tr>
</tbody>
</table>

---

**Accessories (order as a separate item)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix^1</th>
</tr>
</thead>
<tbody>
<tr>
<td>White pendant</td>
<td>P*-WT</td>
</tr>
<tr>
<td>Black pendant</td>
<td>P*-BK</td>
</tr>
<tr>
<td>Gray pendant</td>
<td>P*-GY</td>
</tr>
</tbody>
</table>

^1 Custom pendant lengths and colors available, specify (12", 24", 36", etc.)

---

**How to order panel (order panel as a separate item)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single face green on clear symbol on the right</td>
<td>014145-E</td>
</tr>
<tr>
<td>Single face green on white symbol on the right</td>
<td>014150-E</td>
</tr>
<tr>
<td>Single face green on mirror symbol on the right</td>
<td>014147-E</td>
</tr>
<tr>
<td>Double face green on white symbol on the right</td>
<td>014151-E</td>
</tr>
<tr>
<td>Double face green on mirror symbol on the right</td>
<td>014152-E</td>
</tr>
<tr>
<td>Single face green on clear symbol on the left</td>
<td>014148-E</td>
</tr>
<tr>
<td>Single face green on white symbol on the left</td>
<td>014153-E</td>
</tr>
<tr>
<td>Single face green on mirror symbol on the left</td>
<td>014154-E</td>
</tr>
<tr>
<td>Double face green on white symbol on the left</td>
<td>014155-E</td>
</tr>
<tr>
<td>Double face green on mirror symbol on the left</td>
<td>014149-E</td>
</tr>
</tbody>
</table>

---

**How to order housing (order housing as a separate item)**

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Custom specification</th>
<th>Model</th>
<th>Legend and panel</th>
<th>Trim plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>Brushed aluminum</td>
<td>PLX</td>
<td>Panel shipped separately</td>
<td>A = Angular</td>
</tr>
<tr>
<td>W</td>
<td>White</td>
<td>PLXDC</td>
<td>AC/DC-Remote 6-24V</td>
<td>C = Circular</td>
</tr>
<tr>
<td>B</td>
<td>Black</td>
<td>PLX2CKT</td>
<td>AC-Dual circuit</td>
<td></td>
</tr>
<tr>
<td>BR</td>
<td>Dark bronze (painted)</td>
<td>PLXN</td>
<td>Self-Powered</td>
<td></td>
</tr>
<tr>
<td>PB</td>
<td>Polished brass</td>
<td>PLXND</td>
<td>Self-Powered Diagnostic</td>
<td></td>
</tr>
<tr>
<td>CH</td>
<td>Polished Chrome</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: WCCPLXLPA
Spec Grade
Commercial collection

Ideal for contractors, the commercial collection includes emergency lighting that meets performance and design criteria

• Provide a cohesive look with coordinating emergency lights, exit signs, and combination units in the same design series
• Offer durability and vandal resistance with thermoplastic housings and steel battery enclosure units
• Accommodate challenging installations with multiple mounting options
• Complement decor and meet specialized requirements with elegant die-cast exit signs and special wording custom signage

Ideal for commercial spaces such as
• Convenience stores
• Storage rooms
• Lobbies
• Offices
• Schools

01 JS-HP Series –
Steel housing 12V up to 40W capacities
lead-calcium or nickel-cadmium battery
high performance LED heads, suitable for NEMA 1 location
See page 48 for more information

For more commercial lighting options, see the full section of Remote Fixtures in this catalog. To use existing lighting as emergency lighting, see Mini Inverters in this catalog.
# Table of contents

Spec Grade Commercial

<table>
<thead>
<tr>
<th>Series</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premier™ Compact Series</td>
<td>38</td>
</tr>
<tr>
<td>Premier™ Series</td>
<td>40</td>
</tr>
<tr>
<td>Premier™ Combination Series</td>
<td>42</td>
</tr>
<tr>
<td>Premier™ Exit Series</td>
<td>44</td>
</tr>
<tr>
<td>Provider™ PRO-2N/PRO-3N Series</td>
<td>46</td>
</tr>
<tr>
<td>JS-HP Series</td>
<td>48</td>
</tr>
<tr>
<td>JS Series</td>
<td>50</td>
</tr>
<tr>
<td>LC Series</td>
<td>52</td>
</tr>
<tr>
<td>LS Series</td>
<td>54</td>
</tr>
<tr>
<td>X10 LED Series</td>
<td>56</td>
</tr>
<tr>
<td>Prestige™ Economizer</td>
<td>58</td>
</tr>
<tr>
<td>Recessed ceiling mount</td>
<td></td>
</tr>
<tr>
<td>Prestige™ Economizer</td>
<td>59</td>
</tr>
<tr>
<td>Slim profile surface mount</td>
<td></td>
</tr>
<tr>
<td>Prestige™ Accessibility Series</td>
<td>60</td>
</tr>
<tr>
<td>Preceptor™ Series</td>
<td>62</td>
</tr>
<tr>
<td>Preceptor™ Recessed Series</td>
<td>63</td>
</tr>
<tr>
<td>Preceptor™ Remote Capacity Series</td>
<td>64</td>
</tr>
<tr>
<td>Special Wording Series</td>
<td>66</td>
</tr>
</tbody>
</table>
Premier™ Compact Series
Thermoplastic Compact Housing

Housing
- White or black UV stabilized thermoplastic enclosure
- Clear polycarbonate lens covers
- Choice of MR16 LED lamp wattages

Mounting
- Wall mount
  - Optional: ceiling mount and pendant mount
- Universal J-box mounting

Lamp type
- Two MR16 LED lamps

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

Choice of battery
- 6V or 12V lead-calcium battery
- 6V or 12V nickel-metal hydride battery

Approvals
- UL 924 listed
- UL 94-5VA flame rated thermoplastic housing
- Damp location listed (50°F to 104°F)
  (10°C to 40°C)

Warranty
- Unit has a five-year warranty (excluding lamps and fuses)\(^1\)
  Detailed warranty terms located on page 188 or online at:

\(^1\)For LED lamps warranty, refer to page 188 paragraph 3.3

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>39'</td>
<td>34'</td>
</tr>
<tr>
<td>LG</td>
<td>49'</td>
<td>39'</td>
</tr>
<tr>
<td>LI</td>
<td>68'</td>
<td>54'</td>
</tr>
<tr>
<td>LJ</td>
<td>89'</td>
<td>80'</td>
</tr>
</tbody>
</table>

Choice of battery
- 6V or 12V lead-calcium battery
- 6V or 12V nickel-metal hydride battery

Approvals
- UL 924 listed
- UL 94-5VA flame rated thermoplastic housing
- Damp location listed (50°F to 104°F)
  (10°C to 40°C)

Warranty
- Unit has a five-year warranty (excluding lamps and fuses)\(^1\)
  Detailed warranty terms located on page 188 or online at:

\(^1\)For LED lamps warranty, refer to page 188 paragraph 3.3
**Dimensions**
Dimensions are approximate and subject to change.

---

**Unit rating**

<table>
<thead>
<tr>
<th>Series</th>
<th>AC Input</th>
<th>Maximum</th>
<th>Battery type</th>
<th>Voltage</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPR10M</td>
<td>120/277</td>
<td>0.12 / 0.5A</td>
<td>Lead-calcium</td>
<td>6V-10W</td>
<td>10W</td>
<td>7.5W</td>
<td>5W</td>
<td>3.3W</td>
</tr>
<tr>
<td>12MPR12M</td>
<td></td>
<td>0.20 / 0.09A</td>
<td></td>
<td>12V-12W</td>
<td>12W</td>
<td>9W</td>
<td>6W</td>
<td>4W</td>
</tr>
<tr>
<td>12MPR20M</td>
<td></td>
<td>0.20 / 0.09A</td>
<td></td>
<td>12V-20W</td>
<td>20W</td>
<td>15W</td>
<td>10W</td>
<td>6.5W</td>
</tr>
<tr>
<td>MPR12H</td>
<td></td>
<td>0.21 / 0.5A</td>
<td>Nickel-metal hydride</td>
<td>6V-12W</td>
<td>12W</td>
<td>9W</td>
<td>6W</td>
<td>4W</td>
</tr>
<tr>
<td>12MPR12H</td>
<td></td>
<td>0.12 / 0.5A</td>
<td>Nickel-metal hydride</td>
<td>12V-12W</td>
<td>12W</td>
<td>9W</td>
<td>6W</td>
<td>4W</td>
</tr>
<tr>
<td>12MPR24H</td>
<td></td>
<td>0.12 / 0.5A</td>
<td></td>
<td>12V-24W</td>
<td>24W</td>
<td>18W</td>
<td>12W</td>
<td>8W</td>
</tr>
</tbody>
</table>

---

**How to order**

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series/capacity</th>
<th># of lamps</th>
<th>Lamp type/wattage</th>
<th>Unit type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank=W, B=B</td>
<td>MPR10M= 6V-10W</td>
<td>Blank= No head</td>
<td>LA= 2 X 6V-4W, MR16 LED</td>
<td>Blank= Standard</td>
<td>Blank= No option</td>
</tr>
<tr>
<td></td>
<td>12MPR12M= 12V-12W</td>
<td>2= 2 heads</td>
<td>LG= 2 X 12V-4W, MR16 LED</td>
<td>-D= Advanced Diagnostics (non-audible)</td>
<td>-CM= Ceiling mount</td>
</tr>
<tr>
<td></td>
<td>12MPR20M= 12V-20W</td>
<td></td>
<td>LI= 2 X 12V-5W, MR16 LED</td>
<td>-DA= Advanced Diagnostics (audible)</td>
<td>-D3= Damp location¹</td>
</tr>
<tr>
<td></td>
<td>12MPR12H= 6V-12W</td>
<td></td>
<td>LJ= 2 X 12V-6W, MR16 LED</td>
<td>-NEX= Nexus® wired</td>
<td>-PM= Pendant mount²</td>
</tr>
<tr>
<td></td>
<td>12MPR24H= 12V-24W</td>
<td></td>
<td></td>
<td>-NEXRF= NEXUS® wireless</td>
<td>-LC= Line cord (maximum 120V only)</td>
</tr>
</tbody>
</table>

Example: 12MPR12M2LJ

¹Not available in MPR10M
²-PM sold separately
³-Not available with -NEX and -NEXRF
Premier™ Series
Designed with aesthetics, ease of installation and performance in mind

Housing
- White or black UV stabilized thermoplastic enclosure
- Clear polycarbonate lens covers
- Choice of MR16 LED lamp wattages

Mounting
- Wall mount, ceiling mount and pendant mount (optional)
- Universal J-box mounting

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

Choice of battery
- 6V or 12V lead-calcium battery
- 6V or 12V nickel-cadmium battery

Approvals
- UL 924 listed
- UL 94, 5VA flame rated thermoplastic housing
- Damp location optional (50°F to 104°F)

Warranty
- Unit has a five-year warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td></td>
<td>39'</td>
<td>34'</td>
</tr>
<tr>
<td>LG</td>
<td></td>
<td>49'</td>
<td>39'</td>
</tr>
<tr>
<td>LI</td>
<td></td>
<td>68'</td>
<td>54'</td>
</tr>
<tr>
<td>LJ</td>
<td></td>
<td>89'</td>
<td>80'</td>
</tr>
</tbody>
</table>

Housing color

White  Black
Dimensions
Dimensions are approximate and subject to change.

Wire guards

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>WG1-E</td>
<td>Wall mount</td>
</tr>
<tr>
<td>WG5-E</td>
<td>Ceiling mount</td>
</tr>
</tbody>
</table>

Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>60M</td>
<td>6V</td>
<td>120/277VAC</td>
<td>60</td>
<td>40</td>
<td>30</td>
</tr>
<tr>
<td>40M</td>
<td>12V</td>
<td></td>
<td>40</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>72M</td>
<td>12V</td>
<td></td>
<td>72</td>
<td>54</td>
<td>36</td>
</tr>
<tr>
<td>20NC</td>
<td>6V</td>
<td>120/277VAC</td>
<td>20</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>40NC</td>
<td>12V</td>
<td></td>
<td>40</td>
<td>30</td>
<td>20</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series/capacity</th>
<th># of lamps</th>
<th>Lamp type/wattage</th>
<th>Unit type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>B= Black</td>
<td>Lead-calcium</td>
<td>Blank= No head 2= 2 heads</td>
<td>LA= 6V-4W, MR16 LED LG= 12V-4W, MR16 LED LF= 12V-5W, MR16 LED LJ= 12V-6W, MR16 LED</td>
<td>Blank= Standard -D= Advanced Diagnostics (non-audible)¹ -DA= Advanced Diagnostics (audible)¹ -NEX= Nexus® wired (contact your sales representative)¹ -NEXRF= NEXUS® wireless (contact your sales representative)¹</td>
<td>Blank= No option -CM= Ceiling mount -D3= Time delay (15 minutes) -DL= Damp location² 50°F to 104°F (10°C to 40°C) maximum 12W per head -PM= Pendant mount</td>
</tr>
<tr>
<td></td>
<td>PR60M= 6V-60W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12PR40M= 12V-40W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12PR72M= 12V-72W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nickel-cadmium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PR20NC= 6V-20W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12PR40NC= 12V-40W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: PR60M2LA

¹Minimum lamp load required: 20% of unit capacity
²Not available with -AD, ADNA, NEX and NEXRF.
Premier™ Combination Series
Specification-grade, LED, thermoplastic, snap-together combination unit

**Construction**
- White or black UV stabilized thermoplastic enclosure
- Clear polycarbonate lens covers
- Choice of MR16 LED lamp wattages
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

**Mounting**
- Surface mount
- Canopy included for ceiling mount applications
- Universal J-box mounting

**Choice of battery**
- 6V or 12V lead-calcium battery
- 6V or 12V nickel-metal hydride battery

**Special wording panels**
- Available, contact your sales representative with your design requirements

**Photometric performance**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
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</tr>
<tr>
<td>LI</td>
<td>68'</td>
<td>54'</td>
</tr>
<tr>
<td>LJ</td>
<td>89'</td>
<td>80'</td>
</tr>
</tbody>
</table>

**Electronics**
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

**Approvals**
- UL 924 standards listed
- Nickel-metal hydride battery combination units UL listed for damp location (50°F to 104°F, 10°C to 40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

**Warranty**
- Unit has a five-year warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf
**Double face configurations**

Convert single face to double face in the field

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard (wall mount)</td>
<td>WG2-E</td>
</tr>
<tr>
<td>Pendant white</td>
<td>PRE-P-WH¹</td>
</tr>
<tr>
<td>Pendant black</td>
<td>PRE-P-BK¹</td>
</tr>
</tbody>
</table>

¹Specify pendant length in inches

---

**Power consumption and unit rating**

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit sign module</td>
<td>120/277VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>612M</td>
<td>120/277VAC</td>
<td>0.11 / 0.05 A</td>
</tr>
<tr>
<td>624M</td>
<td>120/277VAC</td>
<td>0.11 / 0.05 A</td>
</tr>
<tr>
<td>1224M</td>
<td>120/277VAC</td>
<td>0.22 / 0.08 A</td>
</tr>
<tr>
<td>612H</td>
<td>120/277VAC</td>
<td>0.11 / 0.05 A</td>
</tr>
<tr>
<td>1224H</td>
<td>120/277VAC</td>
<td>0.22 / 0.08 A</td>
</tr>
<tr>
<td>1240H</td>
<td>120/277VAC</td>
<td>0.22 / 0.08 A</td>
</tr>
<tr>
<td>1250H</td>
<td>120/277VAC</td>
<td>0.22 / 0.08 A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># of heads</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= No heads</td>
<td>LA= 6V-4W, MR16 LED</td>
<td>Blank= No option</td>
</tr>
<tr>
<td>2= Two heads</td>
<td>LG= 12V-4W, MR16 LED</td>
<td>-AD= Advanced Diagnostics (audible)¹</td>
</tr>
<tr>
<td></td>
<td>LI= 12V-5W, MR16 LED</td>
<td>-ADNA= Advanced Diagnostics (non-audible)¹</td>
</tr>
<tr>
<td></td>
<td>L2= 12V-6W, MR16 LED</td>
<td>-NEX= Nexus® wired (contact your sales representative)¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-NEXRF= NEXUS® wireless (contact your sales representative)¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-BA= Brushed aluminum exit stencil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-D3= Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-FA= Fire alarm activated flasher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-FBB= Flasher buzzer + fire alarm activated flasher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-FL= Flasher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-FZ= Flasher buzzer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-VR= Tamper-proof screws²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-VR1= Polycarbonate shield with tamper-proof screws²</td>
</tr>
</tbody>
</table>

---

**How to order**

Example: WPR612M1R2LA

—

**Double face configurations**

Convert single face to double face in the field

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard (wall mount)</td>
<td>WG2-E</td>
</tr>
<tr>
<td>Pendant white</td>
<td>PRE-P-WH¹</td>
</tr>
<tr>
<td>Pendant black</td>
<td>PRE-P-BK¹</td>
</tr>
</tbody>
</table>

¹Specify pendant length in inches

---

**Power consumption and unit rating**

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit sign module</td>
<td>120/277VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>612M</td>
<td>120/277VAC</td>
<td>0.11 / 0.05 A</td>
</tr>
<tr>
<td>624M</td>
<td>120/277VAC</td>
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<td>1224M</td>
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<td>1224H</td>
<td>120/277VAC</td>
<td>0.22 / 0.08 A</td>
</tr>
<tr>
<td>1240H</td>
<td>120/277VAC</td>
<td>0.22 / 0.08 A</td>
</tr>
<tr>
<td>1250H</td>
<td>120/277VAC</td>
<td>0.22 / 0.08 A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># of heads</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= No heads</td>
<td>LA= 6V-4W, MR16 LED</td>
<td>Blank= No option</td>
</tr>
<tr>
<td>2= Two heads</td>
<td>LG= 12V-4W, MR16 LED</td>
<td>-AD= Advanced Diagnostics (audible)¹</td>
</tr>
<tr>
<td></td>
<td>LI= 12V-5W, MR16 LED</td>
<td>-ADNA= Advanced Diagnostics (non-audible)¹</td>
</tr>
<tr>
<td></td>
<td>L2= 12V-6W, MR16 LED</td>
<td>-NEX= Nexus® wired (contact your sales representative)¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-NEXRF= NEXUS® wireless (contact your sales representative)¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-BA= Brushed aluminum exit stencil</td>
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<td></td>
<td></td>
<td>-VR= Tamper-proof screws²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-VR1= Polycarbonate shield with tamper-proof screws²</td>
</tr>
</tbody>
</table>

¹Not available with 1250H, must connect minimum 20% load capacity
²Not available with universal faces

---

**Double face configurations**

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</table>

¹Specify pendant length in inches

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<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
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<td>Exit sign module</td>
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<th>Options</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
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<td>LG= 12V-4W, MR16 LED</td>
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</tr>
<tr>
<td></td>
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<td></td>
<td>L2= 12V-6W, MR16 LED</td>
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<tr>
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</table>

¹Not available with 1250H, must connect minimum 20% load capacity
²Not available with universal faces
# Premier™ Exit Series

Specification-grade, LED, thermoplastic, snap together exit sign

## Construction
- White or black UV stabilized thermoplastic enclosure
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

## Mounting
- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-box mounting

## Special wording panels
- Available. Contact your sales representative with your design requirements

## Electronics
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

## Approvals
- UL 924 listed
- Damp location (50°F to 104°F)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

## Warranty
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

## Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120/277VAC, 60Hz</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>AC/DC-remote</td>
<td>120/277VAC, 60Hz</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120/277VAC, 60Hz</td>
<td>Less than 3.3W</td>
</tr>
<tr>
<td>Self-powered diagnostic</td>
<td>120/277VAC, 60Hz</td>
<td>Less than 2.8W</td>
</tr>
</tbody>
</table>

## Housing color
- White
- Black
Dimensions
Dimensions are approximate and subject to change.

Wire guards

<table>
<thead>
<tr>
<th>Wall</th>
<th>Ceiling</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>WG1-E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WG5-E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WG5-E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pendant white</td>
<td>PRE-P-WH¹</td>
</tr>
<tr>
<td>Pendant black</td>
<td>PRE-P-BK¹</td>
</tr>
<tr>
<td>Wire guard (wall mount)</td>
<td>WG1-E</td>
</tr>
<tr>
<td>Wire guard (ceiling mount and end mount)</td>
<td>WG5-E</td>
</tr>
</tbody>
</table>

¹Specify pendant length in inches

How to order

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series</th>
<th>Unit type</th>
<th>Color</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>W= White</td>
<td>PREM= LED plastic</td>
<td>AC= AC only (120/277V)</td>
<td>R= Red universal</td>
<td>Blank= No option</td>
</tr>
<tr>
<td>G= Green</td>
<td>EXIT=</td>
<td>2C1= Dual AC circuit (2x120V)</td>
<td>G= Green universal</td>
<td>BA= Brushed aluminum exit stencil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2C2= Dual AC circuit (2x277V)</td>
<td>Open face</td>
<td>FA= Fire alarm activated flasher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U= 120/277VAC &amp; 6 to 48VDC</td>
<td>RW= Red on white</td>
<td>(AC, U, 2C1, 2C2 and DN models only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SNX= Self-powered Ni-Cd</td>
<td>GW= Green on white</td>
<td>FBF= Flasher buzzer + fire alarm activated flasher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DN= Self-powered advanced diagnostic circuitry</td>
<td>(Open face required with special wording legends)</td>
<td>(DN model only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEX= NEXUS® wired</td>
<td>FL= Flasher</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEXRF= NEXUS® wireless</td>
<td>FZ= Flasher buzzer (DN model only)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-VR= Single face vandal-resistant screws¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2-VR= Double face vandal resistant screws¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-VR1= Single face polycarbonate shield with tamper proof screws¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2-VR1= Double face polycarbonate shield with tamper proof screws¹</td>
<td></td>
</tr>
</tbody>
</table>

Example: WPREMACR

¹Please specify single or double face, red or green
Provider™ PRO-2N/PRO-3N Series
6V thermoplastic housing protected LED lamps

Housing
- White or black UV stabilized thermoplastic enclosure
- Clear polycarbonate lens covers
- 6V 4W MR16 LED lamps

Mounting
- Surface mount
- Universal J-box mounting

Lamp type
- MR16 LED Lamp, 6V-4W

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

Battery
- 6V lead-calcium battery

Approvals
- UL 924 listed
- Damp location optional (50°F to 104°F)

Warranty
- Unit has a three-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>39'</td>
<td>34'</td>
</tr>
</tbody>
</table>

Housing color

- Off white
- Black
Dimensions
Dimensions are approximate and subject to change.

![Diagram of dimensions](image)

Fast and easy installation
Snap-together design eliminates screws
Conduit knockout
Keyhole slot
Universal mounting pattern
AC-quick connect plug

Power consumption and unit rating – each unit furnished with one LED lamp per head

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>6V</td>
<td>PRO-2N</td>
<td>10</td>
<td>8</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>6V</td>
<td>PRO-3N</td>
<td>18</td>
<td>12</td>
<td>10</td>
<td>7</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional special bit for tamper-proof screws</td>
<td>690.0454-E</td>
</tr>
<tr>
<td>Replacement lamps</td>
<td></td>
</tr>
<tr>
<td>580.0097-E</td>
<td>MR16 LED 6V-4W</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series</th>
<th>Lamp type</th>
<th>Unit type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank - Off white</td>
<td>PRO-2N = 6V-10.8W</td>
<td>-LA = 6V-4W, MR16 LED</td>
<td>Blank - Standard unit</td>
<td>C = Line cord 120V 3 feet</td>
</tr>
<tr>
<td>B = Black</td>
<td>PRO-3N = 6V-18W</td>
<td>-LA = MR16 LED</td>
<td>-AD = Advanced Diagnostics (audible)</td>
<td>CM = Ceiling mount - supplied with metal harness</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-ADNA = Advanced Diagnostics</td>
<td>DL = Damp location</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(non-audible)</td>
<td>VR = Vandal-resistant screws</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NEX = NEXUS® wired</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NEXRF = NEXUS® wireless</td>
<td></td>
</tr>
</tbody>
</table>

Example: BPRO-2N-LADL

1Available with PRO-2N only
**JS-HP Series**

High performance and labor saving features normally found in higher voltage units

**Housing**
- Steel housing
- Standard gray finish, optional black finish

**Lamp heads**
- 6W (L6 lamp suffix), 10W (L10 lamp suffix) and 15W (L15 lamp suffix) high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
- Black heads available in 15W (L15 lamp suffix) only
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure
- Die-cast aluminum, LED heads

**Mounting**
- Wall or ceiling mount
- Universal J-box mounting

**Electronics**
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

**Choice of battery**
- 12V lead-calcium battery
- 12V nickel-cadmium battery

**Approvals**
- UL 924 listed
- NYC approved

**Warranty**
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

---

**Unit rating – equipment with remote capability**

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1 1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
<th>Cabinet size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>12</td>
<td>12JSM36-2</td>
<td>36</td>
<td>25</td>
<td>20</td>
<td>14</td>
<td>5</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>12</td>
<td>12JSC30-2</td>
<td>30</td>
<td>21</td>
<td>15</td>
<td>12</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12JSC40-2</td>
<td>40</td>
<td>36</td>
<td>25</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>
Dimensions
Dimensions are approximate and subject to change.

Photometric performance
The JS-HP Series of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the application, one may select and specify among three levels of lumen output and cross reference to traditional incandescent emergency lights below.

Illumination

<table>
<thead>
<tr>
<th>LED head</th>
<th>Power</th>
<th>Total lumens</th>
<th>Out-perform spacing of the incandescent</th>
</tr>
</thead>
<tbody>
<tr>
<td>L6</td>
<td>6W</td>
<td>565</td>
<td>35W PAR36, MR16 halogen</td>
</tr>
<tr>
<td>L10</td>
<td>10W</td>
<td>1000</td>
<td>50W PAR36, MR16 halogen</td>
</tr>
<tr>
<td>L15</td>
<td>15W</td>
<td>1300</td>
<td>50W MR16-IR halogen</td>
</tr>
</tbody>
</table>

Photometric spacing for 1FC average

NEMA 1 environment: wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. 200 ft X 200 ft X 30 ft space.

Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min< 40:1

Spacing center-to-center (feet)

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Lamp L6 / 6W, 565lm</th>
<th>Lamp L10 / 10W, 1000lm</th>
<th>Lamp L15 / 15W, 1300lm</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft</td>
<td>80</td>
<td>110</td>
<td>140</td>
</tr>
<tr>
<td>15 ft</td>
<td>70</td>
<td>105</td>
<td>135</td>
</tr>
<tr>
<td>20 ft</td>
<td>60</td>
<td>100</td>
<td>130</td>
</tr>
<tr>
<td>25 ft</td>
<td>50</td>
<td>95</td>
<td>120</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting bracket</td>
<td>BJ-E</td>
</tr>
<tr>
<td>Wire guard (front mounted heads)</td>
<td>WG10-E</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series/capacity</th>
<th># of lamps</th>
<th>Head style</th>
<th>Head mounting</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Lead-calcium</td>
<td>-2 Two heads</td>
<td>L6 = 12V-6W (565 lumens)</td>
<td>FM: Front mount</td>
<td>-AD: Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td>G</td>
<td>Gray</td>
<td></td>
<td>L10 = 12V-10W (1000 lumens)</td>
<td></td>
<td>-ADNA: Advanced Diagnostics (non-audible)</td>
</tr>
<tr>
<td></td>
<td>Nickel-cadmium</td>
<td></td>
<td>L15 = 12V-15W (1300 lumens)</td>
<td></td>
<td>-NEX: NEXUS® wired</td>
</tr>
<tr>
<td></td>
<td>12JSM36</td>
<td></td>
<td></td>
<td></td>
<td>-NEXRF: NEXUS® wireless</td>
</tr>
<tr>
<td></td>
<td>12SC30</td>
<td></td>
<td></td>
<td></td>
<td>-C: Line cord 120V 3 feet</td>
</tr>
<tr>
<td></td>
<td>12SC40</td>
<td></td>
<td></td>
<td></td>
<td>-D3: Time delay (15 minutes)</td>
</tr>
</tbody>
</table>

Example: G12JSC30-2L15FM-AD

1 Available with 15 watt heads only
# JS Series

Steel housing 6V & 12V up to 54W capacities

**Housing**
- Steel housing
- Standard off-white finish, optional black finish
- Choice of MR16 LED lamp wattages
- Heads available in thermoplastic or decorative die-cast aluminum

**Mounting**
- Ceiling or wall mount
- Universal J-box mounting

**Electronics**
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

**Choice of battery**
- 6V or 12V lead-calcium battery
- 6V or 12V nickel-cadmium battery

**Approvals**
- UL 924 standard
- NYC approved

**Warranty**
- Unit has a three-year limited warranty
- Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

### Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>43'</td>
<td>36'</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
<td>43'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
<td>56'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
<td>85'</td>
</tr>
</tbody>
</table>

**Housing color**
- Off white
- Black

---

[Diagram showing center-to-center spacing and mounting height with photometric spacing for 1FC average.]
Dimensions
Dimensions are approximate and subject to change.

Cabinet information

<table>
<thead>
<tr>
<th>Cabinet size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>11-3/8” // 9-3/4”</td>
<td>11”</td>
<td>3-1/2”</td>
<td>5-1/4”</td>
</tr>
<tr>
<td>L</td>
<td>12-3/8” // 10-3/4”</td>
<td>12-3/4”</td>
<td>4”</td>
<td>6-1/4”</td>
</tr>
</tbody>
</table>

Unit rating

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1 1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>6</td>
<td>JSM9</td>
<td>9</td>
<td>6</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>JSM18</td>
<td>18</td>
<td>12</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>JSM27</td>
<td>27</td>
<td>18</td>
<td>14</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>JSM36</td>
<td>36</td>
<td>25</td>
<td>20</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>JSM54</td>
<td>54</td>
<td>37</td>
<td>28</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12JSM36</td>
<td>36</td>
<td>25</td>
<td>20</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12JSM54</td>
<td>54</td>
<td>37</td>
<td>28</td>
<td>21</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>6</td>
<td>JSC18</td>
<td>18</td>
<td>12</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>JSC25</td>
<td>25</td>
<td>18</td>
<td>12</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12JSC36</td>
<td>36</td>
<td>21</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12JSC50</td>
<td>50</td>
<td>36</td>
<td>25</td>
<td>18</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting bracket (S cabinet only)</td>
<td>BJ-E</td>
</tr>
<tr>
<td>Wire guard (S cabinet only)</td>
<td>WG1-E</td>
</tr>
<tr>
<td>Wire guard (L cabinet only)</td>
<td>WG2-E</td>
</tr>
<tr>
<td>Wire guard (front mounted heads)</td>
<td>WG10-EG</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series/capacity</th>
<th># of lamps</th>
<th>Head style</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>Off white</td>
<td>-</td>
<td>No head</td>
<td></td>
<td>-AD= Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>1</td>
<td>One head</td>
<td></td>
<td>-ADNA= Advanced Diagnostics (non-audible)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>Two heads</td>
<td></td>
<td>-NEX= Nexus® wired (contact your sales representative)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>Three heads</td>
<td></td>
<td>-NEXRF= NEXUS® wireless (contact your sales representative)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
<td>Mini plastic</td>
<td>MR16</td>
<td>-C= Line cord 120V 3 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150</td>
<td>EF150 lamp heads</td>
<td>MR16 LED</td>
<td>-D3= Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
<td>MR16 LED</td>
<td></td>
<td>-FM= Front mounted heads</td>
</tr>
</tbody>
</table>

Example: JSC18-110LA


**LC Series**

Steel housing – 6V up to 200W, 12V up to 400W and 24V up to 400W capacities

---

**Housing**
- Steel housing
- Standard off-white finish, optional black finish
- Choice of MR16 LED lamp wattages
- Heads available in thermoplastic or decorative die-cast aluminum

**Mounting**
- Ceiling or wall mount
- Universal J-box mounting

**Electronics**
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

**Choice of battery**
- 6V, 12V or 24V lead-calcium (sealed electrolyte) battery

**Approvals**
- UL 924 standard
- NYC approved

**Warranty**
- Unit has a three-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

---

**Photometric performance**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>43'</td>
<td>36'</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
<td>43'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
<td>56'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
<td>85'</td>
</tr>
<tr>
<td>LL</td>
<td>56'</td>
<td>44'</td>
</tr>
</tbody>
</table>

---

**Dimensions**
Dimensions are approximate and subject to change.

---

**Cabinet information**

<table>
<thead>
<tr>
<th>Cabinet size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>16-3/8&quot; // 14-3/4&quot;</td>
<td>16-1/8&quot;</td>
<td>5-7/16&quot;</td>
<td>10-1/4&quot;</td>
</tr>
<tr>
<td>C</td>
<td>18-3/8&quot; // 16-3/4&quot;</td>
<td>16-1/2&quot;</td>
<td>7-1/4&quot;</td>
<td>12-1/4&quot;</td>
</tr>
<tr>
<td>D</td>
<td>18-3/8&quot; // 16-3/4&quot;</td>
<td>27&quot;</td>
<td>7-1/4&quot;</td>
<td>12-1/4&quot;</td>
</tr>
</tbody>
</table>
Commercial Collection – LC Series

Unit Rating

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1 1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>8 hrs</th>
<th># of load fuses</th>
<th>Cabinet size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium (immobilized electrolyte)</td>
<td>6</td>
<td>LC87</td>
<td>87</td>
<td>70</td>
<td>41</td>
<td>24</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>LC100</td>
<td>100</td>
<td>77</td>
<td>47</td>
<td>24</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>LC175</td>
<td>175</td>
<td>140</td>
<td>82</td>
<td>48</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>LC200</td>
<td>200</td>
<td>168</td>
<td>96</td>
<td>48</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12LC150</td>
<td>150</td>
<td>120</td>
<td>66</td>
<td>36</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12LC175</td>
<td>175</td>
<td>140</td>
<td>85</td>
<td>48</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12LC200</td>
<td>200</td>
<td>168</td>
<td>96</td>
<td>48</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12LC300</td>
<td>300</td>
<td>240</td>
<td>132</td>
<td>72</td>
<td>2</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12LC350</td>
<td>350</td>
<td>280</td>
<td>170</td>
<td>96</td>
<td>2</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12LC400</td>
<td>400</td>
<td>336</td>
<td>192</td>
<td>95</td>
<td>2</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>24LC300</td>
<td>300</td>
<td>240</td>
<td>132</td>
<td>72</td>
<td>2</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>24LC350</td>
<td>350</td>
<td>280</td>
<td>168</td>
<td>96</td>
<td>2</td>
<td>D</td>
</tr>
<tr>
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<td>24</td>
<td>24LC400</td>
<td>400</td>
<td>336</td>
<td>192</td>
<td>96</td>
<td>2</td>
<td>D</td>
</tr>
</tbody>
</table>

Battery capacity in watts

- **Minimum load required: 20% of unit load capacity**

Example: LC87-310LA

<table>
<thead>
<tr>
<th>Accessories (order as a separate item)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Mounting bracket (cabinet B)</td>
</tr>
<tr>
<td>Mounting shelves (cabinet B)</td>
</tr>
<tr>
<td>Mounting shelves (cabinet C)</td>
</tr>
<tr>
<td>Mounting shelves (cabinet D)</td>
</tr>
<tr>
<td>Wire guard (cabinet B &amp; cabinet C)</td>
</tr>
<tr>
<td>Wire guard (cabinet D)</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series/capacity</th>
<th># of lamps</th>
<th>Head style</th>
<th>Lamp type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>LC87 = 6V-87W lead-calcium</td>
<td>-0 = No head</td>
<td>10 = EF10 (small plastic MR16)</td>
<td>LA = 6V-4W, LED MR16</td>
<td>Blank = No options</td>
</tr>
<tr>
<td></td>
<td>LC100 = 6V-100W lead-calcium</td>
<td>-1 = 1 head</td>
<td>150 = EF150 (MR16 lamp heads)</td>
<td>LG = 12V-4W, LED MR16</td>
<td>-AD = Advanced Diagnostics (audible)³</td>
</tr>
<tr>
<td></td>
<td>LC175 = 6V-175W lead-calcium</td>
<td>-2 = 2 heads</td>
<td></td>
<td>LI = 12V-5W, LED MR16</td>
<td>-ADNA = Advanced Diagnostics (non-audible)³</td>
</tr>
<tr>
<td></td>
<td>LC200 = 6V-200W lead-calcium</td>
<td>-3 = 3 heads</td>
<td></td>
<td>LJ = 12V-6W, LED MR16</td>
<td>-NEX = Nexus® wired (contact your sales representative)³</td>
</tr>
<tr>
<td></td>
<td>12LC150 = 12V-150W lead-calcium</td>
<td></td>
<td></td>
<td>LL = 24V-4W, LED MR16</td>
<td>-NEXRF = NEXUS® wireless (contact your sales representative)³</td>
</tr>
<tr>
<td></td>
<td>12LC175 = 12V-175W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td>-C = Line cord 120V 3 feet</td>
</tr>
<tr>
<td></td>
<td>12LC200 = 12V-200W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td>-D3 = Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td>12LC300 = 12V-300W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12LC350 = 12V-350W lead-calcium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12LC400 = 12V-400W lead-calcium</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>24LC300 = 24V-300W lead-calcium</td>
<td></td>
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<td>24LC350 = 24V-350W lead-calcium</td>
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<tr>
<td></td>
<td>24LC400 = 24V-400W lead-calcium</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

³Minimum load required: 20% of unit load capacity
LS Series
6 and 12 volt steel enclosure

Housing
Steel housing
• Standard off-white finish, optional black finish
• Choice of MR16 LED lamp wattages
• Heads available in thermoplastic or decorative die-cast aluminum

Mounting
• Ceiling or wall mount
• Universal J-box mounting

Electronics
• Pulse plus charger
• Low voltage disconnect
• Automatic brownout protection
• Battery lock-out
• Fused output circuit
• Optional Advanced Diagnostics
• Optional Nexus® monitoring system
• 120/277 60Hz

Choice of battery
• 6V, 12V or 24V lead-calcium battery
• 6V, 12V or 24V nickel-cadmium battery

Approvals
• UL 924 standard
• NYC approved

Warranty
• Unit has a three-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>43’</td>
<td>36’</td>
</tr>
<tr>
<td>LG</td>
<td>55’</td>
<td>43’</td>
</tr>
<tr>
<td>LI</td>
<td>71’</td>
<td>56’</td>
</tr>
<tr>
<td>LJ</td>
<td>100’</td>
<td>85’</td>
</tr>
<tr>
<td>LL</td>
<td>56’</td>
<td>44’</td>
</tr>
</tbody>
</table>

Dimensions are approximate and subject to change.

Cabinet information

<table>
<thead>
<tr>
<th>Cabinet size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>14-5/8” / 13”</td>
<td>12-3/4”</td>
<td>3-1/8”</td>
<td>8-1/2”</td>
</tr>
<tr>
<td>B</td>
<td>16-3/8” / 14-3/4”</td>
<td>16-1/8”</td>
<td>5-7/16”</td>
<td>10-1/4”</td>
</tr>
<tr>
<td>C</td>
<td>18-3/8” / 16-3/4”</td>
<td>16-1/2”</td>
<td>7-1/4”</td>
<td>12-1/4”</td>
</tr>
</tbody>
</table>
## Unit rating

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1 1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
<th># of load fuses</th>
<th>Cabinet size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>6</td>
<td>LSM18</td>
<td>12</td>
<td>12</td>
<td>10</td>
<td>7</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>6</td>
<td>LSC18</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td>6</td>
<td>1</td>
<td>A</td>
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<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM27</strong></td>
<td><strong>27</strong></td>
<td>18</td>
<td>10</td>
<td>6</td>
<td>1</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM36</strong></td>
<td><strong>36</strong></td>
<td>25</td>
<td>14</td>
<td>7</td>
<td>1</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM54</strong></td>
<td><strong>54</strong></td>
<td>37</td>
<td>21</td>
<td>12</td>
<td>1</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM81</strong></td>
<td><strong>81</strong></td>
<td>54</td>
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<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM110</strong></td>
<td><strong>110</strong></td>
<td>72</td>
<td>40</td>
<td>24</td>
<td>2</td>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM162</strong></td>
<td><strong>162</strong></td>
<td>108</td>
<td>60</td>
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<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM200</strong></td>
<td><strong>200</strong></td>
<td>144</td>
<td>80</td>
<td>48</td>
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<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>6</strong></td>
<td><strong>LSM220</strong></td>
<td><strong>220</strong></td>
<td>144</td>
<td>80</td>
<td>48</td>
<td>2</td>
<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>12</strong></td>
<td><strong>12LSM36</strong></td>
<td><strong>36</strong></td>
<td>25</td>
<td>14</td>
<td>7</td>
<td>1</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>12</strong></td>
<td><strong>12LSC36</strong></td>
<td><strong>36</strong></td>
<td>21</td>
<td>12</td>
<td>6</td>
<td>1</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>12</strong></td>
<td><strong>12LSM54</strong></td>
<td><strong>54</strong></td>
<td>37</td>
<td>21</td>
<td>12</td>
<td>1</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>12</strong></td>
<td><strong>12LSC50</strong></td>
<td><strong>50</strong></td>
<td>36</td>
<td>18</td>
<td>10</td>
<td>1</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>24</strong></td>
<td><strong>24LSM110</strong></td>
<td><strong>110</strong></td>
<td>72</td>
<td>40</td>
<td>24</td>
<td>2</td>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>24</strong></td>
<td><strong>24LSC100</strong></td>
<td><strong>100</strong></td>
<td>73</td>
<td>37</td>
<td>20</td>
<td>2</td>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>24</strong></td>
<td><strong>24LSM220</strong></td>
<td><strong>220</strong></td>
<td>144</td>
<td>80</td>
<td>48</td>
<td>2</td>
<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>Nickel-cadmium</strong></td>
<td><strong>24</strong></td>
<td><strong>24LSC72</strong></td>
<td><strong>72</strong></td>
<td>42</td>
<td>24</td>
<td>12</td>
<td>2</td>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>Lead-calcium</strong></td>
<td><strong>24</strong></td>
<td><strong>24LSC100</strong></td>
<td><strong>100</strong></td>
<td>73</td>
<td>37</td>
<td>20</td>
<td>2</td>
<td><strong>B</strong></td>
</tr>
</tbody>
</table>

### Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting bracket (cabinet A)</td>
<td>B1</td>
</tr>
<tr>
<td>Mounting bracket (cabinet B)</td>
<td>B2</td>
</tr>
<tr>
<td>Mounting shelves (cabinet B)</td>
<td>MP3-EG</td>
</tr>
<tr>
<td>Mounting shelves (cabinet C)</td>
<td>MP6-EG</td>
</tr>
<tr>
<td>Wire guard (cabinet A)</td>
<td>WG2-E</td>
</tr>
<tr>
<td>Wire guard (cabinet B &amp; cabinet C)</td>
<td>WG3-E</td>
</tr>
</tbody>
</table>

### How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series/capacity</th>
<th># of lamps</th>
<th>Head style</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>Off white</td>
<td>-0</td>
<td>No head</td>
<td>LA= 6V-4W, MR16 LED</td>
<td>Blank= No options</td>
</tr>
<tr>
<td>B= Black</td>
<td></td>
<td>-1</td>
<td>1 head</td>
<td>LG= 12V-4W, MR16 LED</td>
<td>-AD= Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-2</td>
<td>2 heads</td>
<td>LI= 12V-5W, MR16 LED</td>
<td>-ADNA= Advanced Diagnostics (non-audible)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-3</td>
<td>3 heads</td>
<td>LL= 24V-4W, MR16 LED</td>
<td>-NEX= Nexus® wired (contact your sales representative)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td>-NEXRF= NEXUS® wireless (contact your sales representative)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-C= Line cord 120V 3 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-D3= Time delay (15 minutes)</td>
</tr>
</tbody>
</table>

Example: BLSC18-110LA-AD

^1Minimum load required: 20% of load capacity
X10 LED Series
Steel LED exit and mini-system combination units

Construction
• Steel housing
• Standard off-white finish, optional black finish
• Choice of MR16 LED lamp wattages
• Heads available in thermoplastic or decorative die-cast aluminum
• 6 inch EXIT lettering legend, available in red or green
• Field-selectable chevrons

Mounting
• Surface mount
• Canopy included for end or ceiling mount applications
• Universal J-box mounting

Combo units
• SBX14 model, lead-calcium battery, 6V-30W total battery capacity
• STX14 model, nickel-cadmium battery, 6V-24W total battery capacity

Exit sign
• X14 model, exit sign, AC-Only, 120/277VAC, 50/60Hz
• SNX14 model, nickel-cadmium battery

Lamp head source
• MR16 LED 6V 4W

Electronics
• Optional Advanced Diagnostics
• Optional Nexus® monitoring system
• 120/277 60Hz

Special wording panels
• Available. Contact your sales representative with your design requirements

Approvals
• UL 924 listed
• Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

Warranty
• Unit has a three-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>43’</td>
<td>36’</td>
</tr>
</tbody>
</table>

Housing color

- White
- Black
- Textured aluminum
### Dimensions
Dimensions are approximate and subject to change.

#### Exit sign model dimensions

```
7-3/8" 12-1/8" 7-5/8"
```

#### Mini system model dimensions

```
4-5/8" 1-1/4" 12-1/4" 7-3/8" 7-5/8" 12-1/8" 6-1/8"
```

### Power consumption – LED exit signs

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277 VAC</td>
<td>Less than 1.5W</td>
</tr>
<tr>
<td>AC/DC</td>
<td>120 to 277 VAC</td>
<td>Less than 6 to 24 VDC</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277 VAC</td>
<td>Less than 3W</td>
</tr>
</tbody>
</table>

#### Mini-system combo
120/277VAC, 0.3/0.15 Amp

### Power consumption – Mini-system combination units

<table>
<thead>
<tr>
<th>Battery type</th>
<th>DC voltage</th>
<th>Model number</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>6</td>
<td>SBX14</td>
<td>30</td>
<td>20</td>
<td>15</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>6</td>
<td>STX14</td>
<td>24</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

120/277VAC, 60Hz, 0.3/0.15 Amp

Unit rating: Total DC power available for local and remote emergency lights.

### Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>White pendant</td>
<td>P-WT¹</td>
</tr>
<tr>
<td>Black pendant</td>
<td>P-BK¹</td>
</tr>
<tr>
<td>Wire guard ceiling mount (exit only)</td>
<td>WG5-E</td>
</tr>
<tr>
<td>Wire guard end mount (exit only)</td>
<td>WG5-E</td>
</tr>
<tr>
<td>Wire guard for wall mount</td>
<td></td>
</tr>
<tr>
<td>(AC only, AC/DC &amp; self-powered exit signs)</td>
<td>WG12-E</td>
</tr>
<tr>
<td>Wire guard for wall mount (mini system or combo)</td>
<td>WG6-E</td>
</tr>
</tbody>
</table>

1 Specify pendant length in inches

### How to order

<table>
<thead>
<tr>
<th>DC Input</th>
<th>Series</th>
<th>Housing color</th>
<th>Battery type</th>
<th>Legend colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= No DC input</td>
<td>L= LED exit sign</td>
<td>W= White</td>
<td>Exit sign models</td>
<td>R= Red</td>
</tr>
<tr>
<td>DC= 6V to 24VDC¹</td>
<td></td>
<td>B= Black</td>
<td>X14= AC only or AC/DC</td>
<td>G= Green</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A= Textured aluminum</td>
<td>SNX14= Ni-Cd 120/277VAC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mini system combination units</td>
<td>Open face²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SBX14= 6V-30W lead-calcium</td>
<td>RW= Red/white</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STX14= 6V-24W nickel-cadmium²</td>
<td>WR= White/Red</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SXX14= 6V-20W nickel-cadmium²</td>
<td>GW= Green/white</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WG= White/green</td>
</tr>
</tbody>
</table>

### # of heads for mini system

<table>
<thead>
<tr>
<th>Blank= No head</th>
<th>Head style</th>
<th>Lamp type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1= 1 head</td>
<td>10= EF10</td>
<td>LA= 6V-4W, MR16 LED*</td>
<td>Blank= No option</td>
</tr>
<tr>
<td>-2= 2 heads</td>
<td>150= EF150</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: DCLWX14R-VR

¹Only available on exit sign models
²Available with -AD, -ADNA, -NEX or -NEXRF only
³Open face required with special wording legends
⁴Available with 10 & 150 lamp head only - NOTE: For a complete list of available lamp types, please refer to the lamp data on page 168
⁵Available only in SNX14, SBX14 & SXX14
**Prestige™ Economizer Series – Recessed ceiling mount**

Edge-lit exit sign

**Construction**
- Steel housing with extruded aluminum trim plate
- Panel features a curved contour for maximum illumination and clarity
- 6 inch EXIT lettering legend available in red or green
- Field installed stick-on chevrons
- Choice of housing and trim plate finishes, off white or textured aluminum

**Mounting**
- Fully recessed ceiling mount
- Hanger bars included for lay-in installation in T-bar grid

**Special wording panels**
- Available. Contact your sales representative with your design requirement

**Electronics**
- 120/277 60Hz

**Approvals**
- UL 924 listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

**Warranty**
- Unit has a five-year limited warranty
- Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

**Housing color**
- TA = Textured aluminum
- OW = Off white
- PE = AC
- PES = AC/DC
- PEN = Self-powered

**Legend color**
- RC = Red on clear
- RW = Red on white
- RM = Red on mirror
- GC = Green on clear
- GM = Green on mirror

---

**Dimensions**

Dimensions are approximate and subject to change.

**Power consumption**

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277VAC</td>
<td>Less than 1.5W</td>
</tr>
<tr>
<td>AC/DC-remote</td>
<td>120 to 277VAC</td>
<td>Less than 1.5W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277VAC</td>
<td>Less than 2.5W</td>
</tr>
</tbody>
</table>

---

**How to order – Recessed mount series**

**Example:** TAPEF1RC

*Single face only*
Prestige™ Economizer Series – Slim profile surface mount
LED edge-lit exit sign

Construction
• Die-cast aluminum housing
• Panel features a curved contour for maximum illumination and clarity
• 6 inch EXIT lettering legend available in red or green
• Field installed stick-on chevrons
• Choice of housing and trim plate finishes, off white or textured aluminum

Mounting
• Surface mount
• Canopy included for wall, end or ceiling mount applications

Special wording panels
• Available. Contact your sales representative with your design requirement

Electronics
• 120/277 60Hz

Approvals
• UL 924 listed
• Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
• Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Housing color
<table>
<thead>
<tr>
<th></th>
<th>Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off white</td>
<td>PE= AC</td>
</tr>
<tr>
<td>Textured aluminum</td>
<td>PE= AC/DC</td>
</tr>
<tr>
<td></td>
<td>PEN= Self-powered</td>
</tr>
</tbody>
</table>

Example: TAPE1RC

How to order – Surface mount series

Dimensions
Dimensions are approximate and subject to change.

Wall Mount
- 12" x 11-1/8" x 10-1/16" x 4-1/4" x 1-5/8" x 1-1/8" x 1-1/4" x 10-5/8" x 12-1/2"
- End Mount
- Ceiling Mount

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120 to 277VAC Less than 2W</td>
<td>–</td>
</tr>
<tr>
<td>AC/DC</td>
<td>120 to 277VAC Less than 2W</td>
<td>6 to 24VDC Less than 1.5W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277VAC Less than 3W Ni-Cd battery Min. 90 minutes</td>
<td>–</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>White pendant</td>
<td>PE-P-WH1</td>
</tr>
<tr>
<td>Black pendant</td>
<td>PE-P-BK1</td>
</tr>
</tbody>
</table>

1Specify pendant length

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series</th>
<th>Face</th>
<th>Legend color</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA= Textured aluminum</td>
<td>PE= AC</td>
<td>1= Single face</td>
<td>RC= Red on clear1</td>
</tr>
<tr>
<td>OW= Off white</td>
<td>PE= AC/DC</td>
<td>2= Double face</td>
<td>RW= Red on white</td>
</tr>
<tr>
<td></td>
<td>PEN= Self-powered</td>
<td></td>
<td>RM= Red on mirror</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GC= Green on clear1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GM= Green on mirror</td>
</tr>
</tbody>
</table>

1Single face only
Prestige™ Accessibility Series
Slim Profile LED Edge-Lit Exit Sign

Construction
- Housing made of extruded aluminum, canopy made of die-cast aluminum
- Legend panel features a curved contour for maximum illumination and clarity
- 6 inch EXIT lettering legend available in red with accessibility symbol
- Universal field selectable chevrons
- Choice of housing and trim plate finishes, off white or textured aluminum
- Choice of legend panel colors, red on clear, red on white, red on mirror

Mounting
- Canopy included for wall, end or ceiling mount applications

Special Wording Panels
- Available. Contact your sales representative with your design requirements

Approvals
- UL 924 listed
- RoHs compliant
- Connecticut State Fire Safety Code PARA 1011.1.2:

1011.1.2 Accessible exits. Where exit signs are required by Section 1011.1 of this code, accessible exit doors at the level of exit discharge that lead directly to accessible paths of exit discharge shall additionally be marked by the International Symbol of Accessibility. Such symbol shall be not less than 6 inches high and shall be incorporated into the required exit sign or shall be located directly adjacent to it. Such symbol shall meet the requirements of Section 1011.

Warranty (subject to proper installation and maintenance)
- Five-year warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Panel configuration

Symbol Left

Symbol Right

Housing color
- Off white
- Textured aluminum
### Dimensions
Dimensions are approximate and subject to change.

![Wall Mount Dimensions](image1)

- **Wall Mount**
  - 17-7/8”
  - 11-1/2”
  - 10-1/2”

![End Mount Dimensions](image2)

- **End Mount**
  - 18-3/8”
  - 11-5/8”

![Ceiling Mount Dimensions](image3)

- **Ceiling Mount**
  - 17-7/8”
  - 4-1/4”
  - 1-5/8”

### Power Consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC only</td>
<td>120 to 277 VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>AC/DC</td>
<td>120 to 277 VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120 to 277 VAC</td>
<td>Less than 3W</td>
</tr>
</tbody>
</table>

### How to Order

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series</th>
<th>Face</th>
<th>Legend color</th>
<th>Panel configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>OW = Off white</td>
<td>PE = AC only</td>
<td>1 = Single face</td>
<td>RC = Red on clear¹</td>
<td>RISA = Right side, 6” letters &amp; International Symbol of Accessibility</td>
</tr>
<tr>
<td>TA = Textured aluminum</td>
<td>PES = AC/DC</td>
<td>2 = Double face</td>
<td>RW = Red on white</td>
<td>LISA = Left side, 6” letters &amp; International Symbol of Accessibility</td>
</tr>
<tr>
<td>PEN = Self-powered, minimum 90 minutes</td>
<td></td>
<td></td>
<td>RM = Red on mirror</td>
<td></td>
</tr>
</tbody>
</table>

Example: OWPEN1RWLISA

¹Single face only
Preceptor™ Series
Die-cast aluminum LED exit sign

Construction
- Die-cast aluminum housing
- Panel features a curved contour for maximum illumination and clarity
- 6 inch EXIT lettering legend available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or brushed aluminum

Mounting
- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-box mounting

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120/277VAC</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>AC/DC-remote</td>
<td>120/277VAC</td>
<td>Less than 2W, 6 to 48VDC</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120/277VAC</td>
<td>Less than 3W, Ni-Cd battery, Min. 90 minutes</td>
</tr>
<tr>
<td>Self-powered with diagnostic</td>
<td>120/277VAC</td>
<td>Less than 2.8W, Ni-Cd battery, Min. 90 minutes</td>
</tr>
</tbody>
</table>

Electronics
- Optional Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

Special wording panels:
- Available. Contact your sales representative with your design requirements

Approvals
- UL 924 listed
- Damp location optional (50°F to 104°F)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
- Unit has a five-year limited warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Dimensions
Dimensions are approximate and subject to change.

Example: BAPU2R

Note: Open face required with special wording legends

1PKN, PNEX and PNEXFR models only
Preceptor™ Recessed Series
Die-cast LED exit sign

Construction
- Die-cast aluminum faceplate
- Panel features a curved contour for maximum illumination and clarity
- 6 inch EXIT lettering legend available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or brushed aluminum

Mounting
- Fully recessed mount

Electronics
- Standard Advanced Diagnostics (self-powered models)
- 120/277 60Hz

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120/277VAC 1.4W</td>
<td>–</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120/277VAC 1.7W Ni-Cd battery</td>
<td>Min. 90 minutes</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.

Special wording panels:
- Available. Contact your sales representative with your design requirements

Approvals
- UL 924 listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Construction
- Die-cast aluminum faceplate
- Panel features a curved contour for maximum illumination and clarity
- 6 inch EXIT lettering legend available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or brushed aluminum

Mounting
- Fully recessed mount

Electronics
- Standard Advanced Diagnostics (self-powered models)
- 120/277 60Hz

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120/277VAC 1.4W</td>
<td>–</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120/277VAC 1.7W Ni-Cd battery</td>
<td>Min. 90 minutes</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.

Special wording panels:
- Available. Contact your sales representative with your design requirements

Approvals
- UL 924 listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

How to order

<table>
<thead>
<tr>
<th>Recessed</th>
<th>Face color</th>
<th>Series</th>
<th># of faces</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR= Fully recessed</td>
<td>Blank= Aluminum face</td>
<td>LEDP= AC only</td>
<td>Single face</td>
</tr>
<tr>
<td></td>
<td>B= Black face</td>
<td>LEDPX= Self-powered Ni-Cd</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W= White face</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend color
- R= Red
- G= Green
- RW= Red on white (open face)
- GW= Green on white (open face)

Options
- DL= Damp location
- FA= Fire alarm activated flasher (self-powered)
- FZ= Flasher buzzer (self-powered)
- VR= Vandal-resistant screws
- VR1= Polycarbonate shield with tamper-proof screws
- ZCKT= Dual circuit operation (AC models only)

Example: FRBLEDPS1R-VR1-N
Preceptor™ Remote Capacity Series
Die-cast aluminum remote capacity exit sign

Construction
• Die-cast aluminum housing
• Panel features a curved contour for maximum illumination and clarity
• 6 inch EXIT lettering legend available in red or green
• Field-selectable chevrons
• Choice of finishes: white, black or brushed aluminum

Mounting
• Surface mount
• Canopy included for end or ceiling mount applications
• Universal J-box mounting

Electronics
• Optional Advanced Diagnostics
• 120/277 60Hz

Choice of battery
• RCL model, (lead-calcium battery) 6V-9W remote load capacity
• RCN model, (nickel-metal hydride battery) 6V-12W remote load capacity
• RCX model, (nickel-metal hydride battery) 6V-24W remote load capacity

Special wording panels
• Available. Contact your sales representative with your design requirements

Approvals
• UL 924 listed
• Damp location optional (50°F to 104°F)
• Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
• Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

<table>
<thead>
<tr>
<th>Series</th>
<th>AC input</th>
<th>AC specs</th>
<th>Voltage</th>
<th>Battery</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCL</td>
<td>120/277VAC, 60Hz</td>
<td>0.13/0.06A 15W</td>
<td>6V</td>
<td>Lead-calcium</td>
<td>9</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>RCN</td>
<td>120/277VAC, 60Hz</td>
<td>0.13/0.06A 15W</td>
<td>6V</td>
<td>NIMH</td>
<td>12</td>
<td>9</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>RCX</td>
<td>120/277VAC, 60Hz</td>
<td>0.13/0.06A 15W</td>
<td>6V</td>
<td>NIMH</td>
<td>24</td>
<td>18</td>
<td>12</td>
<td>9</td>
</tr>
</tbody>
</table>

Housing color

- Black
- White
- Brushed aluminum
Dimensions
Dimensions are approximate and subject to change.

Ceiling mount

Back mount

End mount

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard, back mount</td>
<td>WG13-E</td>
</tr>
<tr>
<td>Wire guard, ceiling mount</td>
<td>WG14-E</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series</th>
<th>Battery type</th>
<th># of faces</th>
<th>Legend color</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA= Black body/ aluminum face</td>
<td>P= Preceptor</td>
<td>RCL= Sealed lead-calcium, 9W remote capacity</td>
<td>1= Single face</td>
<td>R= Red</td>
<td>AD= Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td>BB= Black body/ black face</td>
<td></td>
<td></td>
<td></td>
<td>G= Green</td>
<td>ADNA= Advanced Diagnostics (non-audible)</td>
</tr>
<tr>
<td>WW= White body/ white face</td>
<td></td>
<td>RCN= Sealed nickel-metal hydride, 12W remote capacity</td>
<td>2= Double face</td>
<td>RW= Red on white (Open face required for special wording)</td>
<td></td>
</tr>
<tr>
<td>WA= White body/ aluminum face</td>
<td></td>
<td></td>
<td></td>
<td>GW= Green on white (Open face required for special wording)</td>
<td></td>
</tr>
<tr>
<td>AA= Brushed aluminum body and face</td>
<td></td>
<td>RCX= Sealed nickel-metal hydride, 24W remote capacity</td>
<td></td>
<td></td>
<td>DL= Damp location</td>
</tr>
</tbody>
</table>

Example: BAPRCLZR
Special Wording Series
Custom illuminated signage

Features
• The same sturdy construction and electrical design used in our exit signs is used to produce our custom-worded, illuminated signage
• Sign bodies are available in steel, extruded and die-cast aluminum, weatherproof, flame-retardant polycarbonate, high impact thermoplastic and recessed housing
• Also available with combination units
• Custom wording with available in any style of lettering, any language, and alphabet, any special characters
• Graphics can include logos, standard symbols and custom art
• Color choices for sign bodies, message and faceplate panel
• Illumination from LED (light-emitting diodes); other light sources available
• Contact your local Emergi-Lite® sales representative to discuss your specific requirements

Illuminated Signage
• Custom-worded, illuminated signage is available using the same sturdy construction and electrical design as Emergi-Lite® exit signage. A wide range of sign body options and color choices are available to suit any application.
SPECIFICATION GRADE COMMERCIAL APPLICATIONS

We deliver highly versatile emergency lighting solutions to a wide range of industries, with the protection and safety of human life being paramount.
Spec Grade
Industrial collection

Our high-performance emergency lighting units with NEMA-4X or classified location certifications are designed to withstand harsh, demanding environments.

• Meets specification criteria for humidity, corrosion, dust, water infiltration, and the risk of vandalism
• Uses highly efficient LED light sources for impressive, reliable illumination
• Available for the Nexus® emergency lighting management system

Ideal for spaces with strict requirements such as:

• Chemical plants
• Warehouse and cold storage facilities
• Heavy industrial plants
• Marine locations
• Hosedown areas
• Car washes
• Parking garages
• Transit platforms

See the full selection of Survive-All™, HP Series, and more industrial emergency lighting products in this catalog.
Table of contents
Spec Grade Industrial

Hazardous locations
Important information 70

NEMA enclosures
Various types 71

HP Series 72

HPRL Series 74

Survive-All™ SV Series 76

Survive-All™ SVX Combination Series 78

Survive-All™ SVX Series 80

Survive-All™ EF39 Series 82

HPH Series 84

HPHRL Series 86

Survive-All™ SVH Series 88

Survive-All™ SVXH Series 90

Survive-All™ SVX-HZ Series 92

Survive-All™ EF41 Series 94

EverLite™ Series 95

EXC LED Series 96

EFEP Series 98

EFXP Series 100
Hazardous locations
Important information

Hazardous locations are areas where a potential for explosion or fire exists due to the presence of certain gases, liquid vapors, combustible dusts or fiber particles suspended in the air. The National Electrical Code®, NEMA, OSHA, UL, NFPA Life Safety Standards, as well as State and Local codes prescribe the use of emergency lighting equipment. This equipment itself must not contribute to the ignition of flammable or explosive substances present in the location. Emergi-Lite® offers a complete line of emergency lighting equipment for use in hazardous locations.

Hazardous location classifications

<table>
<thead>
<tr>
<th>Class I</th>
<th>Areas in which flammable gases or vapors may be present in sufficient quantities to be explosive or ignitable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class II</td>
<td>Areas made hazardous by the presence of combustible dust.</td>
</tr>
<tr>
<td>Class III</td>
<td>Areas in which there are easily ignitable fibers or flyings present, due to the type of material being handled, stored or processed—but in which such fibers or flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.</td>
</tr>
</tbody>
</table>

Division 1
(NEC-500-5, 6 & 7)
Normal Situation: A hazard is present in the everyday normal production operation or during frequent repair and/or maintenance activity.

Division 2
(NEC-500-5, 6 & 7)
Abnormal Situation: Potentially hazardous material is expected to be safely confined within closed containers or closed systems, and will be present in the atmosphere only through accidental rupture, breakage, or abnormal operation.

Group A, B, C & D
(NEC-500-3)
Gases and vapors in Class I locations are classified into four groups, by the code A, B, C, and D. These materials are grouped according to the ignition temperature of the substance, its explosion pressure and other flammability characteristics.

Groups E F & G
(NEC-500-3)
Combustible dust in Class II locations are classified according to ignition temperature and the conductivity of the hazardous substance.

Typical Class I locations:
- Petroleum refineries, and gasoline storage and dispensing areas.
- Industrial firms that use flammable liquids in dip tanks for cleaning parts or other operations.
- Petrochemical companies that manufacture chemicals from gas and oil.
- Dry cleaning plants where vapors from cleaning fluids can be present.
- Companies that have areas dedicated for spraying products with paint or plastics.
- Aircraft hangars and fuel servicing areas.
- Utility gas plants, and operations involving storage and handling of liquified petroleum gas or natural gas.

Typical Class II locations:
- Grain elevators, flour and feed mills.
- Plants that manufacture, use or store magnesium or aluminum powders.
- Plants that have chemical or metallurgical processes, producers of plastics, medicines, and fireworks etc.
- Producers of starch or candies.
- Spice grinding plants, sugar plants and cocoa plants.
- Coal preparation plants and other carbon handling or processing areas.

Typical Class III locations:
- Textile mills, cotton gins, cotton seed mills and flax processing plants.
- Clothing manufacturing plants.
- Any plant that shapes pulverizes or cuts wood and creates saw dust or shavings.

For more information consult the NEC Code.
<table>
<thead>
<tr>
<th><strong>NEMA enclosure</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type 1</strong></td>
<td>Intended for use indoors primarily to prevent accidental contact of personnel with the enclosed equipment.</td>
</tr>
<tr>
<td><strong>Type 2</strong></td>
<td>Intended for use indoors to protect the enclosed equipment against falling non-corrosive liquids and falling dirt.</td>
</tr>
<tr>
<td><strong>Type 3</strong></td>
<td>Intended for use outdoors to protect the enclosed equipment against rain, windblown dust, sleet and external ice formation.</td>
</tr>
<tr>
<td><strong>Type 3R</strong></td>
<td>Intended for use outdoors to protect the enclosed equipment against falling rain, sleet and external ice formation.</td>
</tr>
<tr>
<td><strong>Type 4</strong></td>
<td>Intended for use indoors and outdoors to protect the enclosed equipment against windblown dust, rain, splashing water and hose directed water.</td>
</tr>
<tr>
<td><strong>Type 5</strong></td>
<td>Intended for indoor use primarily to protect against dust and falling dirt.</td>
</tr>
<tr>
<td><strong>Type 6</strong></td>
<td>Intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during occasional temporary submersion at a limited depth.</td>
</tr>
<tr>
<td><strong>Type 6P</strong></td>
<td>Intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during prolonged submersion at a limited depth.</td>
</tr>
<tr>
<td><strong>Type 7</strong></td>
<td>Intended for use indoors in locations classified as Class I, Groups A, B, C, or D as defined in the National Electrical Code®.</td>
</tr>
<tr>
<td><strong>Type 8</strong></td>
<td>Intended for indoor or outdoor use in locations classified as Class I, Groups A, B, C, &amp; D as defined in the National Electrical Code®.</td>
</tr>
<tr>
<td><strong>Type 9</strong></td>
<td>Intended for indoor locations classified as Class II, Groups E, F &amp; G, as defined in the National Electrical Code®.</td>
</tr>
<tr>
<td><strong>Type 10</strong></td>
<td>Enclosures are constructed to meet the applicable requirements of the Mine Safety and Health Administration.</td>
</tr>
<tr>
<td><strong>Type 11</strong></td>
<td>Intended for indoor use primarily to provide, by oil immersion, a degree of protection to enclosed equipment against the corrosive effects of liquids and gases.</td>
</tr>
<tr>
<td><strong>Type 12</strong></td>
<td>Intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping noncorrosive liquids.</td>
</tr>
<tr>
<td><strong>Type 12K</strong></td>
<td>Enclosure with knockouts intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping non-corrosive liquids other than at knockouts.</td>
</tr>
<tr>
<td><strong>Type 13</strong></td>
<td>Intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and noncorrosive coolant.</td>
</tr>
</tbody>
</table>
**HP Series**
NEMA-4X, high-performance industrial battery unit

**Housing**
- Compact gray fiberglass housing with captive screws
- NEMA-4X rated
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

**Mounting**
- Simple and easy to install on walls, poles, columns, struts also on vertical
- Pole or column installation bracket sold separately (order catalog number: PMK1-E)
- 1/2” NPT conduit entry on top or side

**Performance**
- High temperature lead-calcium battery operates 32°F to 122°F (0°C to 50°C) optional cold-weather -40°F to 122°F (-40°C to 50°C)
- Nickel-cadmium battery operates 50°F to 104°F (10°C to 40°C)
- 6W, 10W and 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

**Electronics**
- Infra-red remote control included in all models: allows testing the equipment without the need to climb a ladder. Distance range up to 30 ft. Universal, one remote control may test all the units on the job
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

**Approvals**
- UL 924 listed

**Warranty**
- 5-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

**Remote test control**

---

**Power consumption - Maximum current draw**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard temperature range</td>
<td>120/277VAC, 60Hz, 0.30/0.15A</td>
</tr>
<tr>
<td>Cold-weather option</td>
<td>120/277VAC, 60Hz, 0.70/0.35A</td>
</tr>
</tbody>
</table>

**Unit rating**

<table>
<thead>
<tr>
<th>Model</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>12HPHM30</td>
<td>30</td>
<td>20</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>12HPHM60</td>
<td>60</td>
<td>40</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>12HPHN40</td>
<td>40</td>
<td>36</td>
<td>24</td>
<td>18</td>
</tr>
<tr>
<td>24HPHN90</td>
<td>90</td>
<td>72</td>
<td>48</td>
<td>36</td>
</tr>
</tbody>
</table>

*The cold-weather option is only rated for 90 minutes*
Photometric performance
Whether installed indoors or outdoors, the HP Series of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the application, one may select and specify among three levels of lumen output. See cross reference to traditional incandescent emergency lights in table to the right.

### Photometric Spacing

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft.</td>
<td>80</td>
<td>110</td>
<td>140</td>
</tr>
<tr>
<td>15 ft.</td>
<td>70</td>
<td>105</td>
<td>135</td>
</tr>
<tr>
<td>20 ft.</td>
<td>60</td>
<td>100</td>
<td>130</td>
</tr>
<tr>
<td>25 ft.</td>
<td>50</td>
<td>95</td>
<td>120</td>
</tr>
</tbody>
</table>

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft. wide illumination path. 200 ft. X 200 ft. X 30 ft. space. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min< 40:1

### How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Battery type and capacity</th>
<th># of heads</th>
<th>LED heads</th>
<th>Diagnostic</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>12HP</td>
<td>Lead-calcium</td>
<td>0: No head</td>
<td>L6: 12-24V, 6W (565 Lumens)</td>
<td>D= Advanced Diagnostic, non-audible¹</td>
<td>CW4= Cold-weather -40°F [-40°C]²</td>
</tr>
<tr>
<td>24HP</td>
<td>Nickel-cadmium</td>
<td>0: No head</td>
<td>L10: 12-24V, 10W (1000 Lumens)</td>
<td>D= Advanced Diagnostic, audible¹</td>
<td>D3= Time delay 15 minutes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: One head</td>
<td>L15: 12-24V, 15W (1300 Lumens)</td>
<td>-NEXRF= NEXUS® wireless (contact your sales representative)¹</td>
<td>RFI= Radio frequency interference filter</td>
</tr>
</tbody>
</table>

---

¹Standard - minimum load required: 20% of load capacity
²Only 12V equipment
HPRL Series
NEMA-4X, high-performance industrial remote unit

Housing
• Lightweight polycarbonate gray housing with captive screws
• NEMA-4X protection grade
• All external fasteners and hardware are constructed of stainless steel
• Die-cast aluminum LED heads

Mounting
• Simple and easy to install on walls, poles, columns, struts also on vertical
• Pole or column installation bracket sold separately (order catalog number: PMK1-E)
• 1/2 NPT NPT conduit entry on top or side

Performance
• 6W, 10W and 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
• Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

Approvals
• UL 924 Listed
• Can be installed in wide temperature range:
  • -40°F to 131°F (-40°C to 55°C)

Warranty
• Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf
Photometric performance

Whether installed indoors or outdoors, the HP Series of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the application, one may select and specify among three levels of lumen output. See cross reference to traditional incandescent emergency lights below.

<table>
<thead>
<tr>
<th>LED head</th>
<th>Power</th>
<th>Total lumens</th>
<th>Out-perform spacing of incandescent lamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>L6</td>
<td>6W</td>
<td>565</td>
<td>35W PAR36, MR16 halogen</td>
</tr>
<tr>
<td>L10</td>
<td>10W</td>
<td>1000</td>
<td>50W PAR36, MR16 halogen</td>
</tr>
<tr>
<td>L15</td>
<td>15W</td>
<td>1300</td>
<td>50W MR16-IR halogen</td>
</tr>
</tbody>
</table>

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft. wide illumination path. 200 ft. X 200 ft. X 30 ft. space. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min< 40:1

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft.</td>
<td>80</td>
<td>110</td>
<td>140</td>
</tr>
<tr>
<td>15 ft.</td>
<td>70</td>
<td>105</td>
<td>135</td>
</tr>
<tr>
<td>20 ft.</td>
<td>60</td>
<td>100</td>
<td>130</td>
</tr>
<tr>
<td>25 ft.</td>
<td>50</td>
<td>95</td>
<td>120</td>
</tr>
</tbody>
</table>

Center-to-center spacing

Photometric spacing for 1FC average

How to order

Example: HPRLDL10

1. HPRL: High-performance remote lightweight
2. Blank: Single head
3. D: Double head
4. L6: 12-24V – 6W (565 lumens)
5. L10: 12-24V – 10W (1000 lumens)
Survive-All™ SV Series
NEMA-4X, NSF, vandal-resistant housing – 6V-18W & 12V up to 60W capacities

Housing
- Full gasketed NEMA-4X housing
- Vandal-resistant UV stabilized polycarbonate cover
- Comes with both Phillips head for NSF location and tamper-proof screws

Mounting
- Universal J-box mounting
- Strut or I-beam installation bracket sold separately (order catalog number: PMK-E)

Lamp type
- Choice of MR16 LED lamp wattages

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- Standard 15 minutes time delay
- Optional Nexus® monitoring system
- 120/277 60Hz

Choice of battery
- 6V or 12V lead-calcium battery
- 12V nickel-cadmium battery
- 12V nickel-metal hydride battery

Approvals
- UL 924 listed
- UL listed for wet and damp location (50°F to 104°F)
- UL listed for cold weather option (-40°C to +40°C/-40°F to +104°F)
- CSA-US (to UL 924 standard) listed for Nexus® option
- NSF certified for use in food processing plants
- NEMA-4X rated

Warranty
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>39'</td>
<td>34'</td>
</tr>
<tr>
<td>LG</td>
<td>49'</td>
<td>39'</td>
</tr>
<tr>
<td>LI</td>
<td>68'</td>
<td>54'</td>
</tr>
<tr>
<td>LJ</td>
<td>89'</td>
<td>80'</td>
</tr>
</tbody>
</table>

Housing color
Black
Gray
White
**INDUSTRIAL COLLECTION – SURVIVE-ALL™ SERIES**

**Dimensions**
Dimensions are approximate and subject to change.

- **Universal bracket**

**Unit rating - equipment with remote capability**

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-1/2 hrs</td>
</tr>
<tr>
<td>Lead-calcium</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>54</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>24</td>
</tr>
<tr>
<td>Nickel-metal hydride</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

**Accessories (order as a separate item)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional special bit for tamper-proof screws</td>
<td>690.0454-E</td>
</tr>
<tr>
<td>Universal bracket (for mounting on poles, I-beams or strut metal framing)</td>
<td>PMK-E</td>
</tr>
</tbody>
</table>

**How to order**

<table>
<thead>
<tr>
<th>Color</th>
<th>Series</th>
<th># of lamps</th>
<th>Lamps</th>
<th>Diagnostics</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>B= Black</td>
<td>Lead-calcium</td>
<td>-2 = 2 Lamps</td>
<td>LA= 6V-4W, MR16 LED</td>
<td>DA= Advanced Diagnostics (audible)²</td>
<td></td>
</tr>
<tr>
<td>G= Gray</td>
<td>5V18M= 6V-18W lead-calcium</td>
<td></td>
<td>LG= 12V-4W, MR16 LED</td>
<td>D= Advanced Diagnostics (non-audible)²</td>
<td></td>
</tr>
<tr>
<td>W= White</td>
<td>12SV24M= 12V-24W lead-calcium</td>
<td></td>
<td>LJ= 12V-5W, MR16 LED</td>
<td>NEX= Nexus® wired (contact your sales representative)²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12SV36M= 12V-36W lead-calcium</td>
<td></td>
<td>LLI= 12V-6W, MR16 LED</td>
<td>NEXRF= NEXUS® wireless (contact your sales representative)²</td>
<td></td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>12SV24N= 12V-24W nickel-cadmium¹</td>
<td></td>
<td></td>
<td>Blank= No options</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12SV40N= 12V-40W nickel-cadmium¹</td>
<td></td>
<td></td>
<td>CW4= Cold weather</td>
<td></td>
</tr>
<tr>
<td>Nickel-metal hydride</td>
<td>12SV60H= 12V-60W NiMH³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: B12SV36M-2LG-DCW4

¹ Suitable for damp-locations 50°F to 104°F (10°C to 40°C)
² Minimum lamp load: 20% of unit capacity
³ Only available with: 12SV24M & 12SV36M and NEX & NEXRF 12SV24M & 12SV36M
Survive-All™ SVX Combination Series
NEMA-4X, vandal resistant and harsh environment combination unit

Construction
- Full gasketed NEMA-4X housing
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Heads protected by clear polycarbonate lens
- Comes with both Phillips head for NSF location and tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or gray

Lamp type
- Choice of MR16 LED lamp wattages

Mounting
- Surface mount
- Canopy included for end or ceiling mount applications
- Universal 3-box mounting
- 1/2 inch conduit entry on top and sides

Choice of battery
- SVX12N model, nickel-cadmium battery, 6V-12W total battery capacity
- SVX24N model, nickel-cadmium battery, 12V-24W total battery capacity

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>39’</td>
<td>34’</td>
</tr>
<tr>
<td>LG</td>
<td>49’</td>
<td>39’</td>
</tr>
<tr>
<td>LI</td>
<td>68’</td>
<td>54’</td>
</tr>
<tr>
<td>LJ</td>
<td>89’</td>
<td>80’</td>
</tr>
</tbody>
</table>

Special wording panels
- Available. Contact your sales representative with your design requirements

Electronics
- Magnetically operated test switch
- Standard Advanced Diagnostics (non-audible)
- Standard 15 minutes time delay
- Optional Nexus® monitoring system
- 120/277 60Hz

Approvals
- UL 924 listed
- UL listed for wet and damp location (50°F to 104°F)
- UL listed for cold weather option (-40°C to +40°C/-40°F to +104°F)
- CSA-US listed for Nexus® option
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
- Five-year limited warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf
Dimensions
Dimensions are approximate and subject to change.

Unit rating

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-1/2 hrs</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs (90 minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVX12N</td>
<td>120/277VAC</td>
<td>0.12/0.06A 13W</td>
</tr>
<tr>
<td>SVX24N</td>
<td>120/277VAC</td>
<td>0.17/0.08A 19W</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional special bit for tamper-proof screws</td>
<td>690.0454-E</td>
</tr>
<tr>
<td>Additional test magnet</td>
<td>199.0133-E</td>
</tr>
</tbody>
</table>

How to order

Example: WWSVX12N1RD4X2LGCW4

<table>
<thead>
<tr>
<th># of heads</th>
<th>Lamp type/wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank: 0 heads²</td>
<td>LA: 6V-4W, MR16 LED</td>
<td>Blank: No options</td>
</tr>
<tr>
<td>2: Two heads</td>
<td>LG: 12V-4W, MR16 LED</td>
<td>CW4: Cold weather (-40°F/-40°C)³</td>
</tr>
<tr>
<td></td>
<td>LI: 12V-5W, MR16 LED</td>
<td>FA: Flasher (fire alarm activated)</td>
</tr>
<tr>
<td></td>
<td>LJ: 12V-6W, MR16 LED</td>
<td>FB: Flasher/buzzer (AC power failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FL: Flasher (AC power failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-208V= 208VAC, 60Hz input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-240V= 240VAC, 60Hz input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-208V50HZ= 208VAC, 50Hz input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-CM= Canopy pendant mount</td>
</tr>
</tbody>
</table>

²Minimum load required: 20% of load capacity
³Single face only

1 CSA US approved only, consult your sales representative
Survive-All™ SVX Series
NEMA-4X, vandal resistant and harsh environment exit sign

Construction
- Full gasketed NEMA-4X housing
- Frame: polyvinyl chloride enclosure, fully gasketed around the lens, backplate and canopy to prevent water infiltration
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy aluminum
- Comes with both Phillips head for NSF location and tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons
- Choice of finishes: black, white, gray or brushed aluminum

Mounting
- Surface mount
- Ceiling and wall mount are NEMA-4X
- End and pendant mount are not NEMA-4X
- Canopy included for end or ceiling mount applications
- Universal J-box mounting
- 1/2 inch conduit entry on top and sides

Special wording panels
- Available. Contact your sales representative with your design requirements

Electronics
- Magnetically operated test switch
- Standard Advanced Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz
- UL 924 listed
- UL listed for wet and damp location (50°F to 104°F)
- UL listed for cold weather option (-40°C to +40°C/-40°F to +104°F)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards

Warranty
- Five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120-277VAC, 50/60Hz (1.2W)</td>
<td></td>
</tr>
<tr>
<td>AC/DC</td>
<td>120-277VAC, 50/60Hz (1.2W)</td>
<td>6 to 24VDC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(less than 1.5W)</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120-277VAC, 50/60Hz (3.7W)</td>
<td>Ni-Cd battery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(min. 90 minutes)</td>
</tr>
</tbody>
</table>

Housing color
Black
White
Gray
Brushed aluminum
INDUSTRIAL COLLECTION – SURVIVE-ALL™ SVX SERIES

Dimensions

Dimensions are approximate and subject to change.

- Accessory (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamper-proof bit</td>
<td>690.0454-E</td>
</tr>
<tr>
<td>Convert single to double face, red</td>
<td>DFKR</td>
</tr>
<tr>
<td>Convert single face to double face, green</td>
<td>DFKG</td>
</tr>
<tr>
<td>Additional test magnet</td>
<td>199.0133-E</td>
</tr>
</tbody>
</table>

1Colors available AL-BK-WT

- How to order

<table>
<thead>
<tr>
<th>Housing color</th>
<th>Series</th>
<th>Face</th>
<th>Legend</th>
<th>Diagnostic</th>
<th>Housing Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB= Black/black</td>
<td>SVX= AC only</td>
<td>1= Single</td>
<td>R= Red</td>
<td>Blank= AC only (Self-powered only)</td>
<td>4X= Wet/damp locations1</td>
</tr>
<tr>
<td>BW= Black/white</td>
<td>SVXN= Self-powered Ni-Cd</td>
<td>2= Double</td>
<td>G= Green</td>
<td>NEX= NEXUS® wired</td>
<td>Blank= No options</td>
</tr>
<tr>
<td>BA= Black/aluminum</td>
<td></td>
<td></td>
<td></td>
<td>NEXRF= NEXUS® wireless</td>
<td>2CKT= Dual circuit (AC only)2</td>
</tr>
<tr>
<td>GB= Gray/black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CW= Cold weather (Self-powered -4°F to 104°F / -20°C to 40°C (AC/DC -40°F to 104°F, -40°C to 40°C)4)</td>
</tr>
<tr>
<td>GW= Gray/white</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DC= 6 to 24VDC3</td>
</tr>
<tr>
<td>GA= Gray/aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FA= Fire alarm activated flasher4</td>
</tr>
<tr>
<td>WB= White/black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FL= Flasher only4</td>
</tr>
<tr>
<td>WW= White/white</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FZ= Flasher/buzzer (self-powered only)4</td>
</tr>
<tr>
<td>WA= White/aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: BBSVXN1RD4X-FA

1NEMA 4X rated for wall or ceiling mount only
2Not available with Nexus® option
3Not available with self-power
4Not available on AC only, must order self-powered or AC-DC
5Not Nema-4X rated
Survive-All™ EF39 Series
NEMA-4X & NSF Certified

Construction
- Choice of cast aluminum or plastic back plate
- Vandal resistant comes standard with Phillips head screws, optional tamper proof screws
- Available as single or double MR16 lamp size remote lighting fixture
- Includes clear polycarbonate UV and impact resistant cover
- Tool-less, fully adjustable, aiming swivel head and easy lamp replacement

Finish
- White, black or gray

Photometry performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>39’</td>
<td>34’</td>
</tr>
<tr>
<td>LG</td>
<td>49’</td>
<td>39’</td>
</tr>
<tr>
<td>LI</td>
<td>68’</td>
<td>54’</td>
</tr>
<tr>
<td>LJ</td>
<td>89’</td>
<td>80’</td>
</tr>
<tr>
<td>LL</td>
<td>51’</td>
<td>39’</td>
</tr>
</tbody>
</table>

Mounting
- Surface mount
- Includes a back plate for mounting to a standard 4” octagonal electrical box

Approvals
- UL listed
- NSF rated for food processing areas
- NEMA-4X certified

Warranty
- Five-year limited warranty.
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Housing color
- White
- Black
- Gray
**Dimensions**
Dimensions are approximate and subject to change.

---

**Accessories** (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional special bit for tamper-proof screws</td>
<td>690.0454-E</td>
</tr>
</tbody>
</table>

---

**How to order**

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type/wattage</th>
<th>Color</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF39P</td>
<td>(LA) 6V-4W, MR16 LED</td>
<td>Blank</td>
<td>SM= Mounting plate</td>
</tr>
<tr>
<td>EF39PD</td>
<td>(LG) 12V-4W, MR16 LED</td>
<td>-BK= Black</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LI) 12V-5W, MR16 LED</td>
<td>-GY= Gray</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LJ) 12V-6W, MR16 LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LL) 24V-4W, MR16 LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LW) 120V-4W, MR16 LED (2 wire)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:** EF39P(LG)-BK

---

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type/wattage</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF39D</td>
<td>(LA) 6V-4W, MR16 LED</td>
<td>Blank</td>
</tr>
<tr>
<td>EF39D</td>
<td>(LG) 12V-4W, MR16 LED</td>
<td>-BK= Black</td>
</tr>
<tr>
<td></td>
<td>(LI) 12V-5W, MR16 LED</td>
<td>-GY= Gray</td>
</tr>
<tr>
<td></td>
<td>(LJ) 12V-6W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LL) 24V-4W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LW) 120V-4W, MR16 LED (2 wire)</td>
<td></td>
</tr>
</tbody>
</table>

**Example:** EF39(LG)-BK
HPH Series
Class I Division 2, Groups A, B, C and D, Class II Division 2 Groups F and G & Class III. NEMA-4X High-performance unit equipment for hazardous, damp and wet locations.

Housing
- Class I, Div. 2, Groups A, B, C & D, Class II Div. 2, Groups F & G, Class III
- Compact gray fiberglass housing with captive screws
- NEMA-4X rated
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

Mounting
- Simple and easy to install on walls, columns and struts
- Column installation bracket sold separately (order catalog number: PMK1-E)
- 1/2” NPT conduit entry on top or side

Performance
- High temperature lead-calcium battery operates 32°F to 122°F (0°C to 50°C) and nickel-cadmium battery operates 50°F to 104°F (10°C to 40°C);
- Optional cold-weather -40°F to 122°F (-40°C to 50°C)
- 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

Electronics
- Infra-red remote control included in all models: allows testing the equipment without the need to climb a ladder. Distance range up to 30 ft. Universal, one remote control may test all the units on the job
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Advanced Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

Approvals
- UL 924 listed
- Listed to the UL844 Standard for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G and Class III

Warranty
- Unit has five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Remote test control

Power consumption

<table>
<thead>
<tr>
<th>Temperature code</th>
<th>Maximum temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel-cadmium</td>
<td>104°F/40°C</td>
<td>T3C T5</td>
</tr>
<tr>
<td>Lead-acid</td>
<td>122°F/50°C</td>
<td>T3A T5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lamp rating</th>
<th>Maximum temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I Division 2 Groups A, B, C and D</td>
<td>T3C T5</td>
<td></td>
</tr>
<tr>
<td>Class II Division 2 Groups F and G; Class III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lamp rating</th>
<th>Maximum temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>No heads</td>
<td>Class I Division 2 Groups A, B, C and D</td>
<td>T4A T6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lamp rating</th>
<th>Maximum temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class II Division 2 Groups F and G; Class III</td>
<td></td>
</tr>
</tbody>
</table>

Classification for hazardous locations

<table>
<thead>
<tr>
<th>Lamp rating</th>
<th>Temperature code</th>
<th>Maximum temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>L15 (15W)</td>
<td>Class I Division 2 Groups A, B, C and D</td>
<td>T3C T5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class II Division 2 Groups F and G; Class III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lamp rating</th>
<th>Temperature code</th>
<th>Maximum temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>No heads</td>
<td>Class I Division 2 Groups A, B, C and D</td>
<td>T4A T6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lamp rating</th>
<th>Temperature code</th>
<th>Maximum temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class II Division 2 Groups F and G; Class III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit rating</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2 hrs</td>
<td>120/277VAC, 60Hz, 0.30/0.15A</td>
</tr>
<tr>
<td>2 hrs</td>
<td>120/277VAC, 60Hz, 0.70/0.35A</td>
</tr>
</tbody>
</table>

*The cold-weather option is only rated for 90 minutes
Photometric performance
Whether installed indoors or outdoors, the HPH Series of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights.

### Dimensions
Dimensions are approximate and subject to change.

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft.</td>
<td>140</td>
</tr>
<tr>
<td>15 ft.</td>
<td>135</td>
</tr>
<tr>
<td>20 ft.</td>
<td>130</td>
</tr>
<tr>
<td>25 ft.</td>
<td>120</td>
</tr>
</tbody>
</table>

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft. wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min< 40:1

---

**How to order**

<table>
<thead>
<tr>
<th>Series</th>
<th>Battery type and capacity</th>
<th># of heads</th>
<th>LED heads</th>
<th>Diagnostic</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>12PHH</td>
<td>Lead-calcium</td>
<td>0= No head</td>
<td>L15= 12-24V, 15W (1300 Lumens)</td>
<td>D= Advanced Diagnostic, non-audible(^1)</td>
<td>D3= Time delay 15 min.</td>
</tr>
<tr>
<td></td>
<td>M30= 12V-30W, lead-calcium battery</td>
<td>1= One head</td>
<td></td>
<td>DA= Advanced Diagnostic, audible(^1)</td>
<td>RFI= Radio frequency interference filter</td>
</tr>
<tr>
<td></td>
<td>M60= 12V-60W, lead-calcium battery</td>
<td>2= Two heads</td>
<td></td>
<td>-NEX= Nexus(^6) wired</td>
<td>CW4= Cold-weather package</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(contact your sales representative)(^1)</td>
<td>-40°C / -40°F</td>
</tr>
<tr>
<td></td>
<td>Nickel-cadmium</td>
<td></td>
<td></td>
<td>-NEXRF= NEXUS(^5) wireless</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N40= 12V-40W, nickel-cadmium battery</td>
<td></td>
<td></td>
<td>(contact your sales representative)(^1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ND= No Advanced Diagnostic</td>
<td></td>
</tr>
</tbody>
</table>

**Example:** 12HPN402L15DRFI

---

\(^1\)Minimum load required: 20% of load capacity
**Housing**
- Light weight polycarbonate gray housing and die-cast fully adjustable heads
- Class I, Div. 2, Groups A, B, C & D, Class II Div. 2, Groups F & G, Class III
- NEMA-4X protection grade
- All external fasteners and hardware are constructed of stainless steel

**Mounting**
- Simple and easy to install on walls, columns and struts
- Column installation bracket sold separately (order catalog number: PMK1-E)
- 1/2" NPT conduit entry on top or side

**Performance**
- 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

**Approvals**
- UL 924 listed
- Can be installed in wide temperature range: -40°F to 131°F (-40°C to 55°C)
- Listed to the UL 844 Standard for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G and Class III

**Warranty**
- Unit has a five-year limited warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

### Classification for hazardous locations

<table>
<thead>
<tr>
<th>Lamp suffix</th>
<th>Voltage</th>
<th>Power</th>
<th>Lumen flux</th>
<th>Ambient</th>
<th>Classification</th>
<th>Temp. code</th>
</tr>
</thead>
<tbody>
<tr>
<td>L15</td>
<td>12-24VDC</td>
<td>15W</td>
<td>1,300 Lm</td>
<td>131°F / 55°C</td>
<td>Class II Division 2 Groups F and G; Class III</td>
<td>T5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class I Division 2 Groups A, B, C and D</td>
<td>T3C</td>
</tr>
</tbody>
</table>
**Dimensions**
Dimensions are approximate and subject to change.

**Photometric performance**
Whether installed indoors or outdoors, the HPHRL Series of LED remote emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights.

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Lamp L15 / 15W, 1300LM</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft.</td>
<td>140</td>
</tr>
<tr>
<td>15 ft.</td>
<td>135</td>
</tr>
<tr>
<td>20 ft.</td>
<td>130</td>
</tr>
<tr>
<td>25 ft.</td>
<td>120</td>
</tr>
</tbody>
</table>

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft. wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min< 40:1

**How to order**

<table>
<thead>
<tr>
<th>Series</th>
<th>Number of heads</th>
<th>LED head</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPHRL= High-performance hazardous location remote</td>
<td>Blank= Single head</td>
<td>L15 = 12-24V – 15W (1300 Lumens)</td>
</tr>
<tr>
<td></td>
<td>D= Double head</td>
<td></td>
</tr>
</tbody>
</table>

Example: HPHRLDL15
Survive-All™ SVH Series
Class I, Division 2 housing 6V-18W & 12V up to 72W capacities

Housing
- Class I Division 2, Groups A, B, C and D
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Front and back plates are of a heavy duty aluminum
- Stainless steel tamper-proof screws

Mounting:
- Surface wall mount only
- Includes mounting lugs on each side of the housing
- Universal J-box mounting
- 1/2 inch entry on both sides and top of housing

Lamp type
- Choice of MR16 LED lamp wattages

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz

Battery type
- 6 or 12V lead-calcium battery

Approvals
- CSA-US (to UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location (50°F to 104°F)

Warranty
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>39'</td>
<td>34'</td>
</tr>
<tr>
<td>LG</td>
<td>49'</td>
<td>39'</td>
</tr>
<tr>
<td>LI</td>
<td>68'</td>
<td>54'</td>
</tr>
<tr>
<td>LJ</td>
<td>89'</td>
<td>80'</td>
</tr>
</tbody>
</table>
### Dimensions

Dimensions are approximate and subject to change.

![Diagram of dimensions](image)

### Temperature codes

<table>
<thead>
<tr>
<th>Lamp rating</th>
<th>Temperature code</th>
<th>Max. temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>6V-4W</td>
<td>T4A</td>
<td>120°C</td>
<td>580.0097</td>
</tr>
<tr>
<td>12V-4W</td>
<td>T4A</td>
<td>120°C</td>
<td>580.0080</td>
</tr>
<tr>
<td>12V-5W</td>
<td>T4A</td>
<td>120°C</td>
<td>580.0104</td>
</tr>
</tbody>
</table>

1 Use qualified replacement lamps to avoid risk of over-heating.

### Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-1/2 hrs</td>
<td>2 hrs</td>
</tr>
<tr>
<td>SVH18</td>
<td>0.17 / 0.09 Amp</td>
<td>18</td>
</tr>
<tr>
<td>12SVH36</td>
<td>0.30 / 0.15 Amp</td>
<td>36</td>
</tr>
<tr>
<td>12SVH60</td>
<td>0.30 / 0.15 Amp</td>
<td>60</td>
</tr>
<tr>
<td>12SVH72</td>
<td>0.30 / 0.15 Amp</td>
<td>72</td>
</tr>
</tbody>
</table>

### How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Voltage and power</th>
<th># of heads</th>
<th>Lamps</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12SVH36M = 12V-36W, lead-calcium</td>
<td>-0: No heads</td>
<td>LG: 12V-4W, MR16 LED</td>
<td>-DA = Advanced Diagnostics (audible)</td>
</tr>
<tr>
<td></td>
<td>12SVH60M = 12V-60W, lead-calcium</td>
<td></td>
<td>LI: 12V-5W, MR16 LED</td>
<td>-D3 = Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td>12SVH72M = 12V-72W, lead-calcium</td>
<td></td>
<td>LJ: 12V-6W, MR16 LED</td>
<td>-NEX = NEXUS® wired (consult your sales representative)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-NEXRF = NEXUS® wireless (consult your sales representative)</td>
</tr>
</tbody>
</table>

Example: G12SVH72M-2MK-DA

1 Minimum lamp load required: 20% of unit capacity
Survive-All™ SVXH Series
Class I Division 2, Groups A, B, C and D hazardous location combination unit

Construction
- Fully gasketed housing frame
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Stainless steel tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting
- Surface wall mount only
- Backplate features universal knockouts for a standard 4 inch junction box, and four mounting eyelets used in wall mount applications
- 1/2 inch conduit entry on top and sides.

Lamp type
- Choice of MR16 LED lamp wattages

Battery type
- SVXH Model, nickel-cadmium battery, 6V-20W total battery capacity
- SVXH12N Model, nickel-cadmium battery, 12V-24W total battery capacity

Special Wording Panels
- Available. Contact your sales representative with your design requirements

Electronics
- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz

Approvals
- CSA-US (to UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location (50°F to 104°F)
- Temperature code T4A (Max. temperature 248°F/120°C)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

Warranty
- Five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td></td>
<td>39’</td>
<td>34’</td>
</tr>
<tr>
<td>LG</td>
<td></td>
<td>49’</td>
<td>39’</td>
</tr>
<tr>
<td>LI</td>
<td></td>
<td>68’</td>
<td>54’</td>
</tr>
<tr>
<td>L1</td>
<td></td>
<td>89’</td>
<td>80’</td>
</tr>
</tbody>
</table>
Dimensions
Dimensions are approximate and subject to change.

Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>AC Input</th>
<th>Maximum Current</th>
<th>Power</th>
<th>Stand-by Current</th>
<th>Power</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>3 hrs</th>
<th>4 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVXH</td>
<td>120/277VAC</td>
<td>0.15/0.07A</td>
<td>16W</td>
<td>0.09/0.03A</td>
<td>8W</td>
<td>20</td>
<td>15</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>SVXH12N</td>
<td>120/277VAC</td>
<td>0.30/0.08A</td>
<td>29W</td>
<td>0.13/0.05A</td>
<td>10W</td>
<td>24</td>
<td>18</td>
<td>12</td>
<td>–</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional special bit for tamper-proof screws</td>
<td>690.0454-E</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Housing/face color</th>
<th>Series/capacity</th>
<th>Legend color</th>
<th>Diagnostics</th>
<th># of heads</th>
<th>Lamp type/wattage¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG= Gray/gray</td>
<td>SVXH= 6V-20W, Ni-Cd</td>
<td>R= Red</td>
<td>DA= Advanced Diagnostics (audible)</td>
<td>0 head²</td>
<td>LA= 6V-4W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td>SVXH12N= 12V-24W, Ni-Cd</td>
<td>G= Green</td>
<td>D= Advanced Diagnostics (non-audible)</td>
<td>2 heads</td>
<td>LG= 12V-4W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NEX= NEXUS® wired²</td>
<td></td>
<td>LI= 12V-5W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NEXRF= NEXUS® wireless²</td>
<td></td>
<td>LJ= 12V-6W, MR16 LED</td>
</tr>
</tbody>
</table>

Example: GGSVXHrud2LG

¹No other lamp option available
²Consult your sales representative
³Minimum load required: 20% of load capacity
Survive-All™ SVX-HZ Series
Class I Division 2, Groups A, B, C and D, hazardous location exit sign

Construction
- Fully gasketed housing frame
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Stainless steel tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting
- Surface mount
- Junction box included for wall, end or ceiling mount applications
- 1/2 inch conduit knock-out entry on top and sides.

Special wording panels
- Available. Contact your sales representative with your design requirements

Electronics
- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz

Approvals
- CSA-US (To UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location (50°F to 104°F)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

Warranty
- Five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only red</td>
<td>120 to 277VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>AC-only green</td>
<td>120 to 277VAC</td>
<td>Less than 1.5W</td>
</tr>
<tr>
<td>Self-powered red</td>
<td>120 to 277VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>Self-powered green</td>
<td>120 to 277VAC</td>
<td>Less than 2.5W</td>
</tr>
</tbody>
</table>

1Cold-weather option does not consume additional power
### Dimensions

Dimensions are approximate and subject to change.

![Image showing dimensions of the product]

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamper-proof bit (extra)</td>
<td>690.0454-E</td>
</tr>
<tr>
<td>Convert single to double face, red(^1)</td>
<td>DFKR-GY</td>
</tr>
<tr>
<td>Convert single face to double face, green(^1)</td>
<td>DFKG-GY</td>
</tr>
</tbody>
</table>

\(^1\)In the field

### Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamper-proof bit (extra)</td>
<td>690.0454-E</td>
</tr>
<tr>
<td>Convert single to double face, red(^1)</td>
<td>DFKR-GY</td>
</tr>
<tr>
<td>Convert single face to double face, green(^1)</td>
<td>DFKG-GY</td>
</tr>
</tbody>
</table>

\(^1\)In the field

### How to order

<table>
<thead>
<tr>
<th>Color of body/face</th>
<th>Series</th>
<th>Face</th>
<th>Legend</th>
<th>Diagnostic</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG= Gray/gray</td>
<td>SVXHZ= AC only</td>
<td>1= Single</td>
<td>R= Red</td>
<td>-D= Diagnostic (self-powered only &amp; non-audible)</td>
<td>CW= Cold weather(^1)</td>
</tr>
<tr>
<td></td>
<td>SVXNHZ= Self-powered Ni-Cd</td>
<td>2= Double (ceiling mount only)</td>
<td>G= Green</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\)Self-powered model

Example: GGSVXNHZ2R-DCW
Survive-All™ EF41 Series
Class I Division 2, Groups A, B, C and D certified remote fixture

Description
- Available with single or double lamp heads
- Die-cast aluminum back plate with gasket
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Comes standard with tamper-proof screws and bit
- Universal 3-box mounting
- Extreme operational temperature range: -40°F to +104°F (-40°C to +40°C)

Mounting
- Surface mount
- Conduit entry 1/2" NPT

Approval
- CSA-US (to UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D

Lamp selection chart and temperature code

<table>
<thead>
<tr>
<th>Lamp suffix</th>
<th>Voltage</th>
<th>Wattage</th>
<th>Lumens</th>
<th>Replacement #</th>
<th>Temperature code</th>
<th>Max temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>6</td>
<td>4</td>
<td>200</td>
<td>580.0097-E</td>
<td>T4A</td>
<td>120°C</td>
</tr>
<tr>
<td>LG</td>
<td>12</td>
<td>4</td>
<td>220</td>
<td>580.0093-E</td>
<td>T5</td>
<td>100°C</td>
</tr>
<tr>
<td>LI</td>
<td>12</td>
<td>5</td>
<td>340</td>
<td>580.0104-E</td>
<td>T4A</td>
<td>120°C</td>
</tr>
<tr>
<td>LJ</td>
<td>12</td>
<td>6</td>
<td>540</td>
<td>580.0106-E</td>
<td>T4</td>
<td>135°C</td>
</tr>
<tr>
<td>LL</td>
<td>24</td>
<td>4</td>
<td>220</td>
<td>580.0098-E</td>
<td>T5</td>
<td>100°C</td>
</tr>
<tr>
<td>LW</td>
<td>120</td>
<td>4</td>
<td>230</td>
<td>580.0113-E</td>
<td>T4A</td>
<td>120°C</td>
</tr>
</tbody>
</table>

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td></td>
<td>39'</td>
<td>34'</td>
</tr>
<tr>
<td>LG</td>
<td></td>
<td>49'</td>
<td>39'</td>
</tr>
<tr>
<td>LI</td>
<td></td>
<td>68'</td>
<td>54'</td>
</tr>
<tr>
<td>LJ</td>
<td></td>
<td>89'</td>
<td>80'</td>
</tr>
<tr>
<td>LL</td>
<td></td>
<td>51'</td>
<td>39'</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type/wattage</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF41</td>
<td>(LA)= 6V-4W, MR16 LED</td>
<td>-GY= Gray</td>
</tr>
<tr>
<td>EF41D</td>
<td>(LG)= 12V-4W, MR16 LED</td>
<td>-BK= Black</td>
</tr>
<tr>
<td></td>
<td>(LI)= 12V-5W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LJ)= 12V-6W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LL)= 24V-4W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LW)= 120V-4W, MR16 LED</td>
<td></td>
</tr>
</tbody>
</table>

Example: EF41(MJ)-GY
**EverLite™ Series**

Non-electric self luminous tritium exit sign for use in harsh environments

**Construction**
- Housing and frame are made of ABS molding
- Faceplate lens is .13 thick acrylic
- Legend is non-glare polycarbonate
- Tamper-proof assembly with no removable fasteners
- 6” EXIT lettering legend, background available in red or green

**Mounting**
- Surface mount
- Single face model includes (1) housing, (1) faceplate and (1) canopy
- Canopy included for wall, end or ceiling mount applications
- Double face model includes (2) housings, (2) faceplates and (1) canopy
- Canopy included for end or ceiling mount applications

**Finishes** – choice of white or black

**Chevrons** – two field-selectable direction chevrons

**No power required**
- Non-electric, uses no electrical power internally or externally to illuminate – No wiring needed to operate
- No need to be illuminated by absorbing light from another source
- Spark-free, no filament, suitable for use in humid, corrosive or explosive environments

**Illumination**
- Provided by phosphor-coated borosilicate tubes filled with tritium gas
- Low energy beta emission of tritium striking the phosphor coating inside the glass tubes generates illumination for the life of the sign

**Special wording panel** – Not available

**Approvals**
- NFPA Life Safety Code 101 • UL 924
- City of Los Angeles • State of California
- Council of American Building Officials (ICBO, SBCCI)
- OSHA • USNRC • ISO 9001

**Warranty** (subject to proper installation and maintenance)
- Full warranty for life of sign
- 10 year sign=10 year warranty
- 20 year sign=20 year warranty

Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

**Dimensions**
Dimensions are approximate and subject to change.

**Accessories** (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>White pendant</td>
<td>P-WT1</td>
</tr>
<tr>
<td>Black pendant</td>
<td>P-BK1</td>
</tr>
<tr>
<td>Gray pendant</td>
<td>P-GY1</td>
</tr>
<tr>
<td>Wire guard-wall mount</td>
<td>WG15-E</td>
</tr>
<tr>
<td>Wire guard-ceiling mount</td>
<td>WG5-E</td>
</tr>
<tr>
<td>Wire guard-end mount</td>
<td>WG13-E</td>
</tr>
</tbody>
</table>

1Specify length in inches (12, 24, 36, etc.)

**How to order**

<table>
<thead>
<tr>
<th>Frame</th>
<th>Series</th>
<th>Sign life</th>
<th># of faces</th>
<th>Legend</th>
<th>Options</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>W= Off white ABS frame</td>
<td>SLX= Series</td>
<td>-10= 10 years</td>
<td>61= Single face</td>
<td>R= Red</td>
<td>-PC= Polycarbonate shield</td>
<td>-N= NEW</td>
</tr>
<tr>
<td>B= Black ABS frame</td>
<td></td>
<td>-20= 20 years</td>
<td>62= Double face</td>
<td>G= Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G= Gray ABS frame</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A= Aluminum frame</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example: WSLX-1061R-N**
EXC LED Series
Class I, Division 1 & 2, Group C & D; Class II, Division 1 & 2, Group E, F & G; Class III remote fixture for hazardous locations

Housing
- One-piece heavy gauge, corrosion resistant, copper-free cast aluminum
- Consists of a housing with provisions for up to two lighting heads
- Spin-off gasketed cover prevents propagation of internally generated arcs
- Stainless steel vent/drain
- Lighting head fixtures are heavy cast aluminum with Pyrex® lens
- Exit faceplate: heavy-duty 20 gauge steel, baked enamel gray finish
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting
- Surface wall mount
- 3/4” NPT conduit entry on top and bottom of housing
- Single and double pendant mount heads include elbow swivel, conduit extension pipe (6” increments)

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- 120/277 60Hz

Lamp type
- Heads offer a choice of MR16 LED lamp wattages
- Exit sign uses a 3 watt LED lamp

Battery type
- 6V or 12V, nickel-cadmium battery

Approvals
- CSA-US (to UL 924 standards)
- Manufactured in accordance with UL844, UL1203
- Class I, Division 1 & 2, Groups C & D
- Class II, Division 1 & 2, Groups E, F & G
- Class III
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Temperature code T6

Warranty
- Unit has five-year warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x LA</td>
<td>43'</td>
<td>29'</td>
</tr>
<tr>
<td>2 x LG</td>
<td>55'</td>
<td>36'</td>
</tr>
<tr>
<td>2 x LI</td>
<td>67'</td>
<td>41'</td>
</tr>
<tr>
<td>2 x LJ</td>
<td>80'</td>
<td>62'</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.
### Standard configurations for EXC Series

<table>
<thead>
<tr>
<th>Unit</th>
<th>Catalog number examples</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Remote capability)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6EXC1</td>
<td></td>
<td>6 volt self contained hazardous location emergency battery unit 18 watts of remote capacity.</td>
</tr>
<tr>
<td>6EXC1-TS</td>
<td></td>
<td>6 volt self contained hazardous location emergency battery unit 18 watts of remote capacity. Transfer switch included for use with remote exit signs (maximum 5 exit signs per TS).</td>
</tr>
<tr>
<td>12EXC4-1LI</td>
<td></td>
<td>12 volt self contained hazardous location emergency battery unit with one head containing 2 X 12V 5W MR16 LED lamps, 30 watts of remote capacity. Transfer switch included for use with remote exit signs (maximum 5 exit signs per TS).</td>
</tr>
<tr>
<td>12EXC4-1LI-TS</td>
<td></td>
<td>12 volt self contained hazardous location emergency battery unit with one head containing 2 X 12V 5W MR16 LED lamps, 30 watts of remote capacity. Transfer switch included for use with remote exit signs (maximum 5 exit signs per TS).</td>
</tr>
<tr>
<td>6EXC3-2LA</td>
<td></td>
<td>6 volt self contained hazardous location emergency battery unit with two heads, each containing 2 X 6V 4W MR16 LED lamps, 14 watts of remote.</td>
</tr>
<tr>
<td>6EXC3-2LA-TS</td>
<td></td>
<td>6 volt self contained hazardous location emergency battery unit with two heads, each containing 2 X 6V 4W MR16 LED lamps, 14 watts of remote capacity. Transfer switch included for use with remote exit signs (maximum 5 exit signs per TS).</td>
</tr>
<tr>
<td>6EXC1-TS-T1LR</td>
<td></td>
<td>6 volt self contained exit sign with 15 watts of remote capacity. Transfer switch included for use with integral exit sign and additional remote exit signs (maximum 5 exit signs per TS).</td>
</tr>
<tr>
<td>12EXC4-1L3-TS-T1LR</td>
<td></td>
<td>12 volt self contained combination unit with 25 watts of remote capacity. Transfer switch included for use with integral exit sign and additional remote exit signs (maximum 5 exit signs per TS).</td>
</tr>
</tbody>
</table>

Note: Exit signs utilize a 3 watt bayonnet base LED bulb fabricated at our North American facility.

### Unit rating – equipment with remote capability

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery type</th>
<th>D.C. voltage</th>
<th>Model number</th>
<th>1-1/2 hrs</th>
<th>2 hrs</th>
<th>4 hrs</th>
<th>8 hrs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel-cadmium</td>
<td>6</td>
<td>EXC1</td>
<td>8</td>
<td>12</td>
<td>9</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>EXC3</td>
<td>30</td>
<td>20</td>
<td>15</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>EXC2</td>
<td>24</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>EXC4</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

### How to order

<table>
<thead>
<tr>
<th>Series / capacity</th>
<th># of heads and lamps</th>
<th>Lamp wattage/type</th>
<th>Battery unit option</th>
</tr>
</thead>
<tbody>
<tr>
<td>6EXC1= 6Vdc</td>
<td>-0= No emergency head Single head, two lamps</td>
<td>LA= 6V 4W MR16 LED</td>
<td>Blank= No transfer panel</td>
</tr>
<tr>
<td>6EXC3= 6Vdc</td>
<td>-1= Single head, two lamps</td>
<td>LG= 12V 4W MR16 LED</td>
<td>TS= Transfer panel (required to supply remote exit sign only)</td>
</tr>
<tr>
<td>12EXC2= 12Vdc</td>
<td>-2= Two heads, two lamps each</td>
<td>L1= 12V 5W MR16 LED</td>
<td></td>
</tr>
<tr>
<td>12EXC4= 12Vdc</td>
<td></td>
<td>L3= 12V 6W MR16 LED</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exit sign # of faces</th>
<th>Exit sign lamp</th>
<th>Exit sign letter color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank= No exit sign</td>
<td>L= LED exit sign</td>
<td>Blank= No exit sign</td>
</tr>
<tr>
<td>-T1= Single face exit</td>
<td></td>
<td>R= Red</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G= Green</td>
</tr>
</tbody>
</table>

Example: 12EXC4-1LG-T1LR
**EFEP Series**

Explosion proof LED remote unit

**Description**
- MR16 LED light source
- Available as wall-ceiling or pendant mount
- Heavy cast aluminum
- Pyrex® lenses

**Finish**
- Painted grey

**Mounting**
- Surface mount: wall or ceiling
- Pendant mount: single head or double head
- Pendant mount including hazardous location elbows, swivels and conduit extension pipe (6” increments)
- Combination hazardous location junction box/mounting plate with 1/2” NPT conduit entry

**Approvals**
- CSA US (to UL 924 standards)
- Class I, Division 1&2, Groups C and D
- Class II, Division 1&2, Groups E, F and G
- Class III, Division 1&2, (150W max)
- Complies with NEC, OSHA and NEMA for above classes and groups
- Suitable for wet and damp location
- Temperature code T6

**Warranty**
- Unit has a five-year limited warranty
- Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

---

**Photometric performance - with two lamps**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x LA</td>
<td>43’</td>
<td>29’</td>
</tr>
<tr>
<td>2 x LG</td>
<td>55’</td>
<td>36’</td>
</tr>
<tr>
<td>2 x LI</td>
<td>67’</td>
<td>41’</td>
</tr>
<tr>
<td>2 x LJ</td>
<td>87’</td>
<td>62’</td>
</tr>
<tr>
<td>2 x LL</td>
<td>56’</td>
<td>29’</td>
</tr>
<tr>
<td>2 x LV</td>
<td>58’</td>
<td>39’</td>
</tr>
</tbody>
</table>

---

1Pyrex® is a registered trademark of Corning Glass.
**Dimensions**
Dimensions are approximate and subject to change.

![Diagram of dimensions](image)

- **Ceiling mount**
  - 01 EFEPC
  - Ceiling mount 11 lbs.

- **Pendant mount**
  - 02 EFEPP
  - Pendant mount with hanger box & pendant 14 lbs.

- **Wall mount**
  - 03 EFEPW
  - Wall bracket mount 14 lbs.

- **Double pendant mount**
  - 04 EFEPL – Single 12 lbs.
  - EFEPL2 – Double 21 lbs.
  - EFEPL3 – Triple 30 lbs.

---

**Standard configurations for EXC Series**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guard</td>
<td>One-piece aluminum casting construction, attaches to globe holder ring with four screws</td>
<td>GXP</td>
</tr>
<tr>
<td>Dome Reflector</td>
<td>Highly reflective white finish inside and out, attaches to globe holder ring with four screws</td>
<td>RD</td>
</tr>
<tr>
<td>Angle Reflector</td>
<td>Highly reflective white finish inside and out, attaches to globe holder ring with four screws</td>
<td>RA</td>
</tr>
</tbody>
</table>

---

**How to order**

<table>
<thead>
<tr>
<th>Series</th>
<th>Mounting</th>
<th>No. of lamps</th>
<th>Lamp type/wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFEPL</td>
<td>X-proof LED remote</td>
<td>C: Ceiling mount</td>
<td>2: 2 lamps per head</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P: Pendant</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>W: Wall mount</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>D: Double pendant mount</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: EFEPC(HB)-GXP
**EFXP Series**

Explosion-proof exit signs

**Construction**
- Heavy-duty 20 gauge steel, baked enamel grey finish
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

**Mounting**
- Ceiling, wall or pendant
- 3/4 inch conduit entry

**Approvals**
- CSA-US (to UL 924 standards)
- Class I, Division 1&2, Groups C and D
- Class II, Division 1&2, Groups E, F and G
- Class III
- Complies with NEC, OSHA and NEMA for above classes and groups
- Suitable for wet and damp location
- Temperature code T6

**Warranty**
- Unit has a five-year warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

**Transfer panel** *(to order separately with AC/DC exit signs)*
- A transfer panel is only required for AC/DC hazardous location EFXP exit signs that are under constant operation as required by code. Transfer panels are not designed to be installed/mounted in a hazardous or explosive area. Transfer panels are to be mounted remotely from these types of areas.
- Transfer panel available for up to 100W
- To order a transfer panel the following information is required:
  1) AC input: 120V or 277V
  2) DC voltage
  3) The total load wattage of all EFXP lamp(s) to be supplied by transfer panel
Dimensions
Dimensions are approximate and subject to change.

AC-only and AC/DC exit signs

Ceiling mount

Wall mount

Pendant mount

Power consumption

120/277VAC, 60Hz maximum 0.3/0.15A

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Mounting</th>
<th>Lamp</th>
<th>Faces</th>
<th>Legend color</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFXP</td>
<td>C</td>
<td>LED6= 6V-3 watt LED</td>
<td>1= Single face</td>
<td>R= Red</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED12= 12V-3 watt LED</td>
<td>2= Double face</td>
<td>G= Green</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED24= 24V-3 watt LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED120= 120V-5 watt LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>W</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: EFXPCLED61R

How to order – Transfer panel (required for the operation of AC/DC exit sign)

<table>
<thead>
<tr>
<th>AC voltage</th>
<th>DC voltage</th>
<th>Series</th>
<th>Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>120=120V AC</td>
<td>-6= 6V DC1</td>
<td>-T5</td>
<td>-25= 25W</td>
</tr>
<tr>
<td>277=277V AC</td>
<td>-12= 12V DC</td>
<td></td>
<td>-50= 50W</td>
</tr>
<tr>
<td></td>
<td>-24= 24V DC</td>
<td></td>
<td>-75= 75W</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-100=100W</td>
</tr>
</tbody>
</table>

Example: Transfer panel (needed for AC/DC operation): 120-12-T5-25

1 50W maximum
Remote fixtures

Remote fixtures are ideal for architectural, commercial, and industrial locations with limited space or where subtle, code-compliant lighting is required.

- Provides a range of lamp types to suit illumination and spacing requirements
- Offers compatibility with battery units or inverters
- Complements decor with a selection of styles and mounting options
Table of contents
Remote fixtures

Lux-Ray™ LED Series 104

Literay™ Series 106

Revelation™ DC Series 107

Distinction™ DC Series 108

Distinction™ EF150 Series 110

EF10 & EF10D Series 111

EF12D-LED Series 112

HPRL Series 113

Survive-All™ EF39 & EF40 Series 114

HPRL Series 116

Survive-All™ EF41 Series 117
Lux-Ray™ LED Series
Low-profile, sleek look light fixture

Description
• Die-cast aluminum housing
• UV resistant polycarbonate lens

Lamp type
• LED light engine with redundant connections
• Optional forward-throw light distribution, for applications of outdoor egress
• Optional dual-mode: normal and emergency LED lighting with separate AC inputs

Optional high-lumen output
Optional photo-switch: dusk-to-dawn control of normal lighting
Optional remote test: infrared remote control
400-640 Lumens
Color temperature: 5000K

Mounting
• Surface wall mount
• Universal J-box mounting

Approval
• UL listed
• NEMA-3R
• Damp and wet location listed (50°F to 104°F, 10°C to 40°C)

Warranty
• Unit has a five-year limited warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

— Table A – Spacing for minimum illumination = 1FC (1 foot-candle)

<table>
<thead>
<tr>
<th>Model type</th>
<th>Mounting height</th>
<th>Lumen</th>
<th>Color temperature</th>
<th>Single unit</th>
<th>Center-to-center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>9'</td>
<td>400</td>
<td>5000K</td>
<td>4' x 28'</td>
<td>4' x 32'</td>
</tr>
<tr>
<td>With option -H</td>
<td>11'</td>
<td>550</td>
<td></td>
<td>4' x 32'</td>
<td>4' x 40'</td>
</tr>
<tr>
<td>With option -FT</td>
<td>12'</td>
<td>460</td>
<td></td>
<td>4' x 22'</td>
<td></td>
</tr>
<tr>
<td>With option -FTH</td>
<td>15'</td>
<td>640</td>
<td></td>
<td>4' x 27'</td>
<td></td>
</tr>
</tbody>
</table>

— Table B – Spacing for NFPA101 – Average = 1FC (1 foot-candle)

<table>
<thead>
<tr>
<th>Model type</th>
<th>Mounting height</th>
<th>Lumen</th>
<th>Color temperature</th>
<th>Single unit</th>
<th>Center-to-center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>9'</td>
<td>400</td>
<td>5000K</td>
<td>6' x 50'</td>
<td>4' x 32'</td>
</tr>
<tr>
<td>With option -H</td>
<td>11'</td>
<td>550</td>
<td></td>
<td>6' x 60'</td>
<td>4' x 40'</td>
</tr>
<tr>
<td>With option -FT</td>
<td>12'</td>
<td>460</td>
<td></td>
<td>3' x 70'</td>
<td></td>
</tr>
<tr>
<td>With option -FTH</td>
<td>15'</td>
<td>640</td>
<td></td>
<td>6' x 50'</td>
<td></td>
</tr>
</tbody>
</table>

Housing color
Black  Dark bronze  Off-white  Platinum gray
**Dimensions**
Dimensions are approximate and subject to change.

![Dimensions Diagram](image)

---

**Power consumption chart**

<table>
<thead>
<tr>
<th>Model type</th>
<th>Normal lighting (120/277VAC)</th>
<th>Emergency lighting (120/277VAC)</th>
<th>6-12VDC remote</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current (max)</td>
<td>Power (max)</td>
<td>Current (max)</td>
</tr>
<tr>
<td>AC, 2AC, ACDC, DC</td>
<td>0.12/0.08A</td>
<td>12W</td>
<td>0.12/0.08A</td>
</tr>
<tr>
<td>AC, 2AC, ACDC, DC, -H</td>
<td>0.18/0.11A</td>
<td>18W</td>
<td>0.18/0.11A</td>
</tr>
</tbody>
</table>

1Note: only unswitched AC input; normal lighting with photocell or remote control

---

**How to order**

<table>
<thead>
<tr>
<th>Color</th>
<th>Series</th>
<th>Model ([-40°F ... +122°F (-40°C ... +50°C)])</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Black</td>
<td>AC= AC-only</td>
<td>-FT= Forward throw lighting</td>
</tr>
<tr>
<td>BZ</td>
<td>Dark bronze</td>
<td>ACDC= AC/6-12VDC remote</td>
<td>-H= High lumen output (-40°F/40...30°C)</td>
</tr>
<tr>
<td>OW</td>
<td>Off-white</td>
<td>DC= 6-12VDC remote fixture</td>
<td>-P= Photocell (AC, ACDC only)</td>
</tr>
<tr>
<td>PG</td>
<td>Platinum gray</td>
<td>2AC= AC-only two circuits: 120/120 or 277/277V</td>
<td>-RC= Remote control test switch- infrared¹ (AC, ACDC only)</td>
</tr>
</tbody>
</table>

Example: BZLUXDC-FTH

¹Remote control keypad (TB-RC1-E) ordered separately
### Literay™ Series
Wall mount remote head for damp and wet locations

**Description**
- Indoor or outdoor use
- Die-cast aluminum construction
- Fully gasketed cover
- Impact- and tamper-resistant polycarbonate lens

**Mounting**
- Surface wall mount
- Universal J-box mounting

**Lamp type**
- Choice of MR16 LED lamp wattages

#### Approval
- UL 924 listed
- NEMA-3R
- Damp and wet location listed (50°F to 104°F, 10°C to 40°C)

#### Warranty
- Unit has a three-year limited warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

#### Dimensions
Dimensions are approximate and subject to change.

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
<th>Mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG frosted lens</td>
<td>16’</td>
<td>16’</td>
</tr>
<tr>
<td>LG clear lens</td>
<td>28’</td>
<td>28’</td>
</tr>
</tbody>
</table>

**Photometric performance**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
<th>Mounting height</th>
<th>Photometric spacing for 1FC average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 ft</td>
<td>7 ft</td>
<td></td>
</tr>
</tbody>
</table>

**How to order**

<table>
<thead>
<tr>
<th>Series</th>
<th>No. of lamps</th>
<th>Lamp type/Wattage</th>
<th>Color</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITE=</td>
<td>-2= 2 lamps</td>
<td>(LA)= 6V-4W,</td>
<td>-WT=</td>
<td>Blank=</td>
</tr>
<tr>
<td>Exterior</td>
<td></td>
<td>MR16 LED</td>
<td>White</td>
<td>No</td>
</tr>
<tr>
<td>remote</td>
<td></td>
<td>(LG)= 12V-4W,</td>
<td>-BK=</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MR16 LED</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(LI)= 12V-5W,</td>
<td>-DG=</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MR16 LED</td>
<td>Dark gray</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(LJ)= 12V-6W,</td>
<td>-BZ=</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MR16 LED</td>
<td>Dark bronze</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(LL)= 24V-4W,</td>
<td>-VR=</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MR16 LED</td>
<td>Vandal-resistant</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(LV)=120V-4W,</td>
<td>-N=</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MR16 LED</td>
<td>Clear lens</td>
<td></td>
</tr>
</tbody>
</table>

Example: LITE-2(LA)-WT-VR
**Revelation™ DC Series**
Virtually invisible, architecturally pleasing

**Description**
- Indoor use
- One-piece all-metal module design
- Complete 360° door rotation
- Slip gear mechanism protects the unit from objects that would cause the door rotation to be forcibly stopped.

**Finish**
- Flat door and frame are covered with a high-quality, powder coated textured off-white finish
- Surface finish can be customized on site with paint, wallpaper or other coverings.

**Mounting**
- The module includes the electrical junction box and is installed on the wall stud or ceiling beam with the help of a simple, U-shape bracket.
- Key-hole slot for ease of installation

**Photometric performance**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7 ft. mounting height</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
</tr>
<tr>
<td>LL</td>
<td>56'</td>
</tr>
</tbody>
</table>

**Lamp type**
- Choice of MR16 LED lamp wattages

**Approval**
- CSA-US (to UL 924 standards)

**Warranty**
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

**Dimensions**
Dimensions are approximate and subject to change.

**How to order**

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>Series</th>
<th># of lamps</th>
<th>Lamp type/ wattage</th>
<th>Options</th>
<th>Blank/Damp location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 = 12VDC</td>
<td>RTR = Revelation remote</td>
<td>2 = Two lamps</td>
<td>-LG = 12V-4W, MR16 LED</td>
<td>No options</td>
<td>-DL = Damp location</td>
</tr>
<tr>
<td>24 = 24VDC</td>
<td></td>
<td></td>
<td>-LI = 12V-5W, MR16 LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-L3 = 12V-6W, MR16 LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-LL = 24V-4W, MR16 LED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: 12RTR2-LG-DL

---

**Example: 12RTR2-LG-DL**
**Distinction™ DC Series**
Remote recessed designer light fixtures

**Description**
- Indoor use
- Powder-coated die-cast aluminum construction

**Finish**
- Choice of white, black, brushed nickel

**Mounting**
- Recessed ceiling mount
- Must order appropriate housing with decorative head selection for installation into new construction ceiling (EL-GRHR03) or non-insulated ceiling (EL-GRHR05) GU10 or insulated ceiling (EL-GRHR06)

**Approval**
- UL listed

**Warranty**
- Unit has a three-year limited warranty
- Detailed warranty terms located on page 188 or online at: [www.emergi-lite.com/usa/files/EL_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

---

**Photometric performance**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>43'</td>
<td>36'</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
<td>43'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
<td>56'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
<td>85'</td>
</tr>
<tr>
<td>LL</td>
<td>56'</td>
<td>44'</td>
</tr>
<tr>
<td>LM</td>
<td>100'</td>
<td>85'</td>
</tr>
<tr>
<td>LV</td>
<td>43'</td>
<td>39'</td>
</tr>
</tbody>
</table>

**Dimensions**
Dimensions are approximate and subject to change.

---

**Housing**

<table>
<thead>
<tr>
<th>Suffix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL-GRHR03</td>
<td>New construction</td>
</tr>
<tr>
<td>EL-GRHR04</td>
<td>Renovation housing</td>
</tr>
<tr>
<td>EL-GRHR05</td>
<td>Non-insulated ceiling</td>
</tr>
<tr>
<td>EL-GRHR06</td>
<td>Insulated ceilings</td>
</tr>
</tbody>
</table>

---

**Photometric spacing**
Center-to-center spacing

---

**Center-to-center spacing**

---

**Dimensions for 1FC average**

---

**New construction housing.**
Total height: 5.6’

---

**Renovation housing**

---

**Insulated ceilings housing**
Total height: 7.25’

---

**New construction housing for GU10**

---

**New construction housing for GU10**

---

**Renovation housing**

---

**Insulated ceilings housing**

---
### Series Description:
- **EFRB8R**: concave (egress/regress)
- **EFR9**: pop-out

#### EFR8R: concave
- **Description**: Decorative adjustable lighting head
- **Dimensions**: 4.0” diameter base
- **Color suffix**: -WH = White, -BN = Brushed nickel or -BK= Black
  
  Requires recessed housing

<table>
<thead>
<tr>
<th>Color/suffix</th>
<th>LED lamp suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 6V-4W, MR16 LED</td>
<td>LJ 12V-5W, MR16 LED</td>
</tr>
<tr>
<td>LG 12V-4W, MR16 LED</td>
<td>LJ 12V-6W, MR16 LED</td>
</tr>
<tr>
<td>LL 24V-4W, MR16 LED</td>
<td>LM 24V-6W, MR16 LED</td>
</tr>
<tr>
<td>LV 120V-4W, MR16 LED</td>
<td>-</td>
</tr>
</tbody>
</table>

**Example**: EFR8R-BK-(LA)

#### EFR9: pop-out
- **Description**: Decorative adjustable lighting head
- **Dimensions**: 4.0” diameter base
- **Color suffix**: -WH = White or -BK= Black
  
  Requires recessed housing

<table>
<thead>
<tr>
<th>Color/suffix</th>
<th>LED lamp suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 6V-4W, MR16 LED</td>
<td>LJ 12V-5W, MR16 LED</td>
</tr>
<tr>
<td>LG 12V-4W, MR16 LED</td>
<td>LJ 12V-6W, MR16 LED</td>
</tr>
<tr>
<td>LL 24V-4W, MR16 LED</td>
<td>LM 24V-6W, MR16 LED</td>
</tr>
<tr>
<td>LV 120V-4W, MR16 LED</td>
<td>LI 12V-5W, MR16 LED</td>
</tr>
</tbody>
</table>

### EL-GRHR03
- **Description**: New construction housing
- **Dimensions**: 5.6” x 14.2”

### EL-GRHR04
- **Description**: Renovating Housing
- **Dimensions**: 4.6” x 12.5”

### EL-GRHR05
- **Description**: New construction housing
- **Dimensions**: 5.6” x 14.24”
  
  **Note**: For MR16 halogen lamps, please consult lamp data p. 140-141

### EL-GRHR06
- **Description**: Insulated ceiling housing
- **Dimensions**: 7.25” x 14.24”

---

#### How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Color</th>
<th>Lamp type/wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFR8B</td>
<td>Choose color from the above table</td>
<td>-(L_) = LED MR16</td>
</tr>
<tr>
<td>EFR9WH</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Example**: EFR8R-BK-(LA)
Description
• Indoor use
• Available as a single, double or triple MR16 LED size lighting head
• Die-cast aluminum construction

Finish
• Powder-coated off-white or black

Mounting
• Surface mount
• Universal J-box mounting

Approval
• UL 924 listed

Warranty
• Unit has a three-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7' mounting height</td>
</tr>
<tr>
<td>LA</td>
<td>43'</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
</tr>
<tr>
<td>LL</td>
<td>56'</td>
</tr>
<tr>
<td>LV</td>
<td>53'</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard for EF150, EF150D</td>
<td>WGB-E</td>
</tr>
<tr>
<td>Wire guard for EF150T</td>
<td>WGB2-E</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th># of heads</th>
<th>Color</th>
<th>Lamp type/ wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF150</td>
<td>Blank</td>
<td>White</td>
<td>(LA) 6V-4W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td>Blank</td>
<td>Black</td>
<td>(LG) 12V-4W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>Black</td>
<td>(LL) 24V-4W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>Black</td>
<td>(LI) 12V-5W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>Black</td>
<td>(LJ) 12V-6W, MR16 LED</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>Black</td>
<td>(LV) 120V-4W, MR16 LED</td>
</tr>
</tbody>
</table>

Example: EF150D-B(MK)
Surface Mounted EF10 & EF10D Series
Thermoplastic MR16 lamp head

Description
• Indoor use
• Available as a single, double or triple head
• Thermoplastic construction
• Snap-out lens for easy lamp replacement

Finish
• Off-white or black

Lamp type
• Choice of MR16 LED lamp wattages

Mounting
• Surface mount
• Universal J-box mounting

Approval
• UL 924 listed

Warranty
• Unit has a three-year limited warranty
  Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>43'</td>
<td>36'</td>
</tr>
<tr>
<td>LG</td>
<td>55'</td>
<td>43'</td>
</tr>
<tr>
<td>LI</td>
<td>71'</td>
<td>56'</td>
</tr>
<tr>
<td>LJ</td>
<td>100'</td>
<td>85'</td>
</tr>
<tr>
<td>LL</td>
<td>56'</td>
<td>44'</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th># of heads</th>
<th>Lamp type/ wattage</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF10</td>
<td>Blank± Single head</td>
<td>(LA) = 6V-4W, MR16 LED</td>
<td>Blank± Off-white</td>
</tr>
<tr>
<td></td>
<td>D= Double head</td>
<td>(LG) = 12V-4W, MR16 LED</td>
<td>BK= Black</td>
</tr>
<tr>
<td></td>
<td>T= Triple head</td>
<td>(LI) = 12V-5W, MR16 LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LJ) = 12V-6W, MR16 LED</td>
<td>(LL) = 24V-4W, MR16 LED</td>
<td></td>
</tr>
</tbody>
</table>

Example: EF150D-B(MK)
EF12D-LED Series
Thermoplastic square LED outdoor remote heads

Features
- Multi-volt 3.6, 6 or 12V, 3W in total
- Thermoplastic housing and aluminum canopy with fully adjustable LED heads
- Available only in gray 2-heads configuration
- Suitable for outdoor, wet location applications
- Wall or ceiling mount
- -4°F to 122°F (-20°C to 50°C)
- UL 924 Listed

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Dimensions
Dimensions are approximate and subject to change.

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF12</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th># of lamp</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF12</td>
<td>Blank= Single head</td>
<td>-LED= Thermoplastic square LED head</td>
</tr>
<tr>
<td></td>
<td>D= Double head</td>
<td></td>
</tr>
</tbody>
</table>

Example: EF12D-LED
HPRL Series High-Performance Industrial Remote
NEMA-4X, high-performance industrial remote unit

Photometry performance
Capable of being installed indoors or outdoors, the HP Series of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the required illumination levels need for the application, one choose between three level of lumen output using a 6W, 10W or 15W head. See cross reference to traditional MR16 halogen emergency lamp types.

Spacing center-to-center (feet)

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Lamp L6/6W, 565Lm</th>
<th>Lamp L10/10W, 1000Lm</th>
<th>Lamp L15/15W, 1300Lm</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft</td>
<td>80</td>
<td>110</td>
<td>140</td>
</tr>
<tr>
<td>15 ft</td>
<td>70</td>
<td>105</td>
<td>135</td>
</tr>
<tr>
<td>20 ft</td>
<td>60</td>
<td>100</td>
<td>130</td>
</tr>
<tr>
<td>25 ft</td>
<td>50</td>
<td>95</td>
<td>120</td>
</tr>
</tbody>
</table>

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/ min< 40:1

Housing
- Lightweight polycarbonate gray housing with captive screws
- NEMA-4X protection grade
- All external fasteners and hardware are constructed of stainless steel

Mounting
- Simple and easy to install on walls, poles, columns, struts also on vertical
- Pole or column installation bracket sold separately (order catalog number: PMK1-E) 1/2 NPT conduit entry on top or side

Performance
- 6W, 10W and 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

Approvals
- UL 924 listed
- Can be installed in wide temperature range: -40°F to 131°F (-40°C to 55°C)

Warranty (subject to proper installation and maintenance)
- Unit has a five-year warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Dimensions
Dimensions are approximate and subject to change.

How to order
Example: HPRLD6

Photometric spacing for 1FC average
Center-to-center spacing

Accessory: PMK1-E order separately

Warning: The mounting column must be anchored at both ends: floor and ceiling.

<table>
<thead>
<tr>
<th>LED head</th>
<th>Power</th>
<th>Total lumens</th>
<th>Out-perform spacing of MR16 halogen lamp types</th>
</tr>
</thead>
<tbody>
<tr>
<td>L6</td>
<td>6W</td>
<td>565</td>
<td>37W PAR36, MR16 halogen (700 lumens)</td>
</tr>
<tr>
<td>L10</td>
<td>10W</td>
<td>1000</td>
<td>50W PAR36, MR16 halogen (950 lumens)</td>
</tr>
<tr>
<td>L15</td>
<td>15W</td>
<td>1300</td>
<td>50W MR16-IR halogen (1550 lumens)</td>
</tr>
</tbody>
</table>
Survive-All™ EF39 Series and EF40 Series
EF39 NEMA-4X & NSF certified EF40 vandal resistant

Description
- EF39 and EF39P NEMA-4X and NSF certified indoor or outdoor use
- EF39 and EF39P NEMA-4X and NSF certified with choice of fully gasketed cast aluminum or plastic back plate¹
- EF40 and EF40P vandal resistant for Indoor USE with choice of fully gasketed cast aluminum or plastic back plate
- EF39 and EF39P NEMA-4X and NSF Certified comes standard with Phillips head screws and tamper proof screws
- Available as single or double MR16 LED lamp size remote lighting fixture include clear polycarbonate UV and impact resistant cover
- EF39 and EF39P NEMA-4X and NSF Certified comes standard with Phillips head screws and tamper proof screws

Lamp type
- Choice of MR16 LED lamp wattages

Mounting
- Surface mount
- Universal J-box mounting approval

Approval
- UL 924 listed
- Vandal resistant¹
- NEMA-4X¹
- NSF Rated

¹ EF39P and EF39 units are NEMA-4X Certified when installed using a circular NEMA-4X rated junction box (sold separately by Thomas&Betts under product number 091647-E)

Warranty
- Unit has a five-year limited warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>39'</td>
<td>34'</td>
<td></td>
</tr>
<tr>
<td>LG</td>
<td>49'</td>
<td>39'</td>
<td></td>
</tr>
<tr>
<td>LI</td>
<td>68'</td>
<td>54'</td>
<td></td>
</tr>
<tr>
<td>LJ</td>
<td>89'</td>
<td>80'</td>
<td></td>
</tr>
<tr>
<td>LL</td>
<td>51'</td>
<td>39'</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions

Dimensions are approximate and subject to change.

Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional special bit for tamper-proof screws</td>
<td>690.0454-E</td>
</tr>
</tbody>
</table>
### How to order EF39 Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type/wattage</th>
<th>Lamp type</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF39P=</td>
<td>(LA)= 6V-4W, MR16 LED</td>
<td>Blank=</td>
<td>SM= Mounting plate</td>
</tr>
<tr>
<td>EF39PD=</td>
<td>(LG)= 12V-4W, MR16 LED</td>
<td>White=</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LL)= 12V-5W, MR16 LED</td>
<td>-BK= Black</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LJ)= 12V-6W, MR16 LED</td>
<td>-GY= Gray</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LL)= 24V-4W, MR16 LED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: EF39P(LG)-BK

### How to order EF40 Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type/wattage</th>
<th>Lamp type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF40P=</td>
<td>(LA)= 6V-4W, MR16 LED</td>
<td>Blank=</td>
<td>Blank= No options</td>
</tr>
<tr>
<td>EF40PD=</td>
<td>(LG)= 12V-4W, MR16 LED</td>
<td>White=</td>
<td>T= Tamper proof screws</td>
</tr>
<tr>
<td></td>
<td>(LL)= 12V-5W, MR16 LED</td>
<td>-BK= Black</td>
<td>SM= Mounting plate</td>
</tr>
<tr>
<td></td>
<td>(LJ)= 12V-6W, MR16 LED</td>
<td>-GY= Gray</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LL)= 24V-4W, MR16 LED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: EF40P(LG)

### How to order EF40 Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type/wattage</th>
<th>Lamp type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF40=</td>
<td>(LA)= 6V-4W, MR16 LED</td>
<td>Blank=</td>
<td>Blank= No options</td>
</tr>
<tr>
<td>EF40D=</td>
<td>(LG)= 12V-4W, MR16 LED</td>
<td>White=</td>
<td>T= Tamper proof screws</td>
</tr>
<tr>
<td></td>
<td>(LL)= 12V-5W, MR16 LED</td>
<td>-BK= Black</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LJ)= 12V-6W, MR16 LED</td>
<td>-GY= Gray</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(LL)= 24V-4W, MR16 LED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: EF40D(LJ)
REMOTES REMOTE FIXTURES

EMERGI-LITE REMOTE FIXTURES

PHHRDL Series Hazardous Locations
Class I Division 2, Class II Division 2, Class III high-performance remote fixture

Photometry performance
Whether installed indoors or outdoors, the HP Series of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the application, one may select and specify among three levels of lumen output. See cross reference to traditional incandescent emergency lights below.

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft</td>
<td>Lamp L15/15W, 1300Lm</td>
</tr>
<tr>
<td>15 ft</td>
<td></td>
</tr>
<tr>
<td>20 ft</td>
<td></td>
</tr>
<tr>
<td>25 ft</td>
<td></td>
</tr>
</tbody>
</table>

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

Description
- Lightweight polycarbonate gray housing and fully adjustable
- Die-cast aluminum heads designed for Class I Division 2 Groups A, B, C and D, Class II Division 2, Groups F & G and Class III applications facilities
- Can be installed in varied temperature conditions: -40°F to 131°F (-40°C to 55°C)
- High-efficacy LED emergency heads outperform traditional 50W incandescent lamps
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure
- Simple and easy to install on building walls, columns, struts, etc. On vertical position for columns use mounting bracket (order separately catalog number: PMK1-E)

Approvals
- UL 924 listed
- Listed UL 844 Standard for Class I Division 2 Groups A, B, C & D, Class II Division 2, Groups F & G and Class III

Warranty
- Unit has a five-year limited warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Dimensions
Dimensions are approximate and subject to change.

<table>
<thead>
<tr>
<th>LED head</th>
<th>Power</th>
<th>Total lumens</th>
<th>Out-perform spacing of incandescent lamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>L15</td>
<td>15W</td>
<td>1300</td>
<td>50W MR16-IR halogen</td>
</tr>
</tbody>
</table>

Photometric spacing for 1FC average

How to order
Series | # of heads | Lamp type/wattage
--- | --- | ---
HPHRDL = High-performance hazardous location remote | D = Double head L15 = 12-24V – 15W (1300 lumens)
Blank = Single head L15 = 12-24V – 15W (1300 lumens)

Example: HPHRLDL15
Survive-All™ EF41 Series
Class I division II certified remote fixture

Description
- Available with single or double lamp heads
- Die-cast aluminum back plate with gasket
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Comes standard with tamper-proof screws and bit
- Universal J-box mounting
- Extreme operational temperature range: -40°F to +104°F (-40°C to +40°C)

Mounting
- Surface mount
- Conduit entry 1/2" NPT

Approval
- CSA-US (To UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D

Warranty
- Unit has a five-year limited warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Voltage</th>
<th>Wattage</th>
<th>Lumens</th>
<th>Replacement number</th>
<th>Temp. code</th>
<th>Max. temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>6</td>
<td>4</td>
<td>200</td>
<td>580.0097-E</td>
<td>T4A</td>
<td>120°C</td>
</tr>
<tr>
<td>LG</td>
<td>12</td>
<td>4</td>
<td>220</td>
<td>580.0093-E</td>
<td>T5</td>
<td>100°C</td>
</tr>
<tr>
<td>LI</td>
<td>12</td>
<td>5</td>
<td>340</td>
<td>580.0104-E</td>
<td>T4A</td>
<td>120°C</td>
</tr>
<tr>
<td>LJ</td>
<td>12</td>
<td>6</td>
<td>540</td>
<td>580.0106-E</td>
<td>T4</td>
<td>135°C</td>
</tr>
<tr>
<td>LL</td>
<td>24</td>
<td>4</td>
<td>220</td>
<td>580.0098-E</td>
<td>T5</td>
<td>100°C</td>
</tr>
<tr>
<td>LW</td>
<td>120</td>
<td>4</td>
<td>230</td>
<td>580.0113-E</td>
<td>T4A</td>
<td>120°C</td>
</tr>
</tbody>
</table>

Lamp selection chart and temperature code

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type/wattage</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF41</td>
<td>Single lamp</td>
<td>-GY= Gray</td>
</tr>
<tr>
<td>EF41D</td>
<td>Double lamp</td>
<td>-GY= Gray</td>
</tr>
</tbody>
</table>

Example: EF41(MJ)-GY

¹Wattage doubles for "D" 2-lamp version
Distributor Select products

Popular emergency lighting products are in stock and ready to ship from warehouses across North America for fast delivery.

- Deliver quickly with fast stock replenishment
- Easily specify the exact products you need from standard options
- Exceed your customers’ expectations with a wide range of versatile emergency lighting solutions
# Table of contents

**Distributor Select**

<table>
<thead>
<tr>
<th>Series</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiance™ Series</td>
<td>120</td>
</tr>
<tr>
<td>EL-2RHL™ Series</td>
<td>122</td>
</tr>
<tr>
<td>Prestige™ Thin Die-Cast Series</td>
<td>124</td>
</tr>
<tr>
<td>Total™ Edge Series</td>
<td>125</td>
</tr>
<tr>
<td>EL-2LED Series</td>
<td>126</td>
</tr>
<tr>
<td>ELXN400 LED Series</td>
<td>128</td>
</tr>
<tr>
<td>EF43D Series</td>
<td>129</td>
</tr>
<tr>
<td>EF44D Series</td>
<td>129</td>
</tr>
<tr>
<td>EL-2SQL LED</td>
<td>130</td>
</tr>
<tr>
<td>ELX400 SQL LED Series</td>
<td>132</td>
</tr>
<tr>
<td>ELX Remote Capable Exit Series</td>
<td>134</td>
</tr>
<tr>
<td>EF47DSQL Series</td>
<td>135</td>
</tr>
<tr>
<td>EF12D-LED Series</td>
<td>135</td>
</tr>
<tr>
<td>DLM-2 Series</td>
<td>136</td>
</tr>
<tr>
<td>GS Series</td>
<td>137</td>
</tr>
</tbody>
</table>
Radiance Series
Low profile LED emergency lighting

Housing
- Indoor/outdoor suitable for wet location
- Die-cast aluminum housing
- UV-resistant (3” x 1.5”) polycarbonate lens
- Photo cell standard

Mounting
- Wall mount
- 1/2” rigid conduit top entry
- Universal J-box mounting

Lamp type
- 1600 lumens in AC mode 600 Lumens in emergency mode
- Color temperature: 5000K
- Dual-mode operation: normal and emergency LED lighting with separate AC inputs

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- 120/277 60Hz
- AC unit rated for -13°F to 122°F (-25°C to 50°C)
- Dual mode unit rated for 5°F to 122°F (-15°C to 50°C)

Approvals
- UL 924 Listed
- NEMA-3R rated for indoor/outdoors cold-weather wet and damp locations
- Meets all NFPA 70, NFPA 101 life safety codes

Warranty
- Unit has a three-year warranty
Detailed warranty terms located on page 188 of the catalog or online at:

Photometry performance

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Spacing center-to-center (feet)</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5'</td>
<td></td>
<td>50'</td>
</tr>
<tr>
<td>10'</td>
<td></td>
<td>63'</td>
</tr>
</tbody>
</table>
Dimensions

Dimensions are approximate and subject to change.

Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>DC specs</th>
<th>AC Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Battery type</td>
<td>Voltage</td>
</tr>
<tr>
<td>AC</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>ACSD</td>
<td>Nickel-cadmium</td>
<td>7.2V</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series</th>
<th>Model</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>BZ= Dark bronze</td>
<td>RAD= Radiance</td>
<td>AC= AC only</td>
<td>-CW= Cold weather¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACSD= Dual-mode</td>
<td></td>
</tr>
</tbody>
</table>

Example: BZRADACSD-CW

¹ Available on the ACSD version only
EL-2RHL Series
High output lithium LED battery unit

Housing
• UV stabilized thermoplastic body
• Two adjustable high output LED lighting heads
• White finish

Mounting
• Wall or ceiling mount
• Universal J-box mounting

Lamp type
• Two 9.6V-5.4W LED heads, 550 lumens per head

Electronics
• Pulse plus charger
• Low voltage disconnect
• Automatic brownout protection
• Battery lock-out
• Fused output circuit
• Standard Advanced Diagnostics
• 120/277 60Hz

Photometry performance

<table>
<thead>
<tr>
<th>Spacing center-to-center (feet)</th>
<th>Mounting height</th>
<th>6 ft spacing distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5'</td>
<td>90°</td>
<td></td>
</tr>
<tr>
<td>10'</td>
<td>78°</td>
<td></td>
</tr>
</tbody>
</table>

Approvals
• UL 924 Listed
• Damp location (50°F to 104°F)
• UL 94, 5VA flame rated
• Circle BC meet CEC title 20

Warranty
• Unit has a three-year warranty
Detailed warranty terms located on page 188 of the catalog or online at:
Dimensions
Dimensions are approximate and subject to change.

Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>DC specs</th>
<th>AC Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Battery type</td>
<td>Voltage</td>
</tr>
<tr>
<td>EL-2RHL-AD</td>
<td>Lithium-ion battery</td>
<td>9.6</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Heads</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL</td>
<td>-2RHL-AD = Two round high output LED heads with Advanced Diagnostics</td>
</tr>
</tbody>
</table>

Example: EL-2RHL-AD
Prestige™ Thin Die-Cast Series
Die-cast aluminum slim profile exit sign with long-lasting LED performance

Construction
- Die-cast aluminum
- 6 inch EXIT lettering legend, available in red or green
- Choice of finishes: all white or black with brushed aluminum faceplate: Field-selectable chevrons

Mounting
- Surface mount
- Canopy included for end or ceiling mount applications: Universal J-box mounting

Dimensions
Dimensions are approximate and subject to change.

Faceplate
- White
- Brushed aluminum

Approvals
- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

---

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only</td>
<td>120/277 VAC, 60Hz</td>
<td>Typical 1W</td>
</tr>
<tr>
<td>Self-powered</td>
<td>120/277 VAC, 60Hz</td>
<td>Typical 1W</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard (wall mount)</td>
<td>WG1-E</td>
</tr>
<tr>
<td>Wire guard (ceiling mount and end mount)</td>
<td>WG5-E</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Frame color/ Face plate</th>
<th>Series</th>
<th>No. of lamps</th>
<th>Legend color</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA= Black body/brushed aluminum face</td>
<td>TX= AC only</td>
<td>1= Single face</td>
<td>R= Red</td>
</tr>
<tr>
<td>WW= White/white</td>
<td>TXN= Self-powered unit (90 min.)</td>
<td>2= Double face</td>
<td>G= Green</td>
</tr>
</tbody>
</table>

Example: BATXN1R
Total™ Edge Series
Single and double face, surface and recessed mount edge-lit exit sign

Construction
- Extruded aluminum housing
- High grade acrylic panel
- 6 inch EXIT lettering legend, available in red or green:
  - Field-selectable chevrons
- Satin aluminum housing

Mounting
Universal mount model
- Pivoting panel design allows for recessed, surface, wall or ceiling mount installation
- A ratcheting mechanism allows the panel to be set in place from 0° to 180° for wall or sloped ceiling mounting
- Canopy included for surface wall, end or ceiling mount application
- Trim plate, 27 inch adjustable T-bar hangers and a junction box included for recessed application¹

Approvals
- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°F)
- Meets NFPA101 (Life Safety Code)
- NFPA 70-NEC and OSHA illumination standards

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

¹Not intended for closed ceilings such as plaster and sheetrock.

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>850.0107-E</td>
</tr>
<tr>
<td>Pendant white</td>
<td>P^WT</td>
</tr>
<tr>
<td>Pendant black</td>
<td>P^BK</td>
</tr>
<tr>
<td>Pendant adapter¹</td>
<td>081806-E</td>
</tr>
</tbody>
</table>

¹Required for use with pendant

Dimensions
Dimensions are approximate and subject to change.

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AC only</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>120VAC, 60Hz</td>
<td>2.0-2.6W</td>
</tr>
<tr>
<td></td>
<td>277VAC, 60Hz</td>
<td>2.6-3.1W</td>
</tr>
<tr>
<td>Green</td>
<td>Self-powered</td>
<td>Green</td>
</tr>
<tr>
<td></td>
<td>120VAC, 60Hz</td>
<td>2.8-3.3W</td>
</tr>
<tr>
<td></td>
<td>277VAC, 60Hz</td>
<td>3.5-4W</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Color</th>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA= AC Only</td>
<td>R= Red on mirror</td>
<td>6= 6” EXIT single and</td>
</tr>
<tr>
<td>PN= Self-powered</td>
<td>G= Green on mirror</td>
<td>double face with</td>
</tr>
<tr>
<td>PA2= AC only dual circuit</td>
<td>6= 6” EXIT single and</td>
<td>universal chevrons</td>
</tr>
</tbody>
</table>

Example: PAR6
EL-2LED Series
Low energy, low maintenance emergency lighting for moderate budget applications

Construction
- UV stabilized thermoplastic body
- Fully adjustable Cluster™ LED glare-free heads
- Choice of white or black housing

Mounting
- Ceiling or wall mount
- Universal J-box mounting

Lamp type
- White LED 3.6V-1.8W each, 70 lumens per head

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out installation
- Fused output circuit
- Optional Advanced Diagnostics
- 120/277 60Hz

Sealed maintenance-free battery
- 3.6V nickel-cadmium battery

Approvals
- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°F)
- UL 94, 5VA flame rated (68°F to 86°F, 20°C to 30°C)
- EL-2LED is circle BC to meet CEC. Title 20

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty
  Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Spacing center-to-center (feet)</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>15'</td>
<td>4'</td>
<td></td>
</tr>
</tbody>
</table>

Photometric spacing for IFC average
Dimensions
Dimensions are approximate and subject to change.

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>Current (A) / Power (W)</th>
<th>Model</th>
<th>Current (A) / Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL-2LED</td>
<td>0.103/0.10A</td>
<td>EL-2LED</td>
<td>0.13/0.16A</td>
</tr>
<tr>
<td>EL-2LEDR</td>
<td></td>
<td>EL-2LEDR-AD</td>
<td>0.058/0.029A</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series</th>
<th>Lamp option</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>White</td>
<td>-2LED</td>
<td>Blank= No option</td>
</tr>
<tr>
<td>B</td>
<td>Black</td>
<td>= round LED array</td>
<td>R= 3.6W remote capacity to power one double head remote¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>R-AD= 3.6W remote capacity to power one double head dedicated remote with Advanced-Diagnostics¹</td>
</tr>
</tbody>
</table>

Example: EL-2LEDR

¹Remote capacity can only be used to power the EF43D or EF44D remote fixtures or to extend the battery units emergency run time beyond the standard 90 minutes.
ELXN400 LED Series
Low energy and low maintenance for moderate budget application

Housing
- UV stabilized thermoplastic body
- Fully adjustable Cluster™ LED glare-free heads
- 6 inch EXIT lettering legend, available in red or green
- Field selectable chevrons

Mounting
- Surface mount
- Canopy included for ceiling mount applications
- Universal J-box mounting finishes

Type of battery
- 3.6V nickel-cadmium battery

Lamp head source
- White LED 3.6V-1.8W each

Electronics
- Optional Advanced Diagnostics
- 120/277 60Hz

Approvals
- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°F)
- UL 94, 5VA flame rated

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty
  Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Spacing center-to-center (feet)</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>15'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.
Distributor Select

6-11/16"  4-1/6"  2-1/16"  5-10/16"  7-6/16"

129ELXN400 LED SERIES / EF43D & EF44D SERIES

How to order

Series Legend color Lamp Options Color
ELXN400= red exit R= red exit Blank= no option Blank= white
Combo Series G= green exit -2LED= round LED array
R= 3.6W remote capacity to power one double head remote¹
R-AD= 3.6W remote capacity to power one double head dedicated remote with Advanced-Diagnostics¹
Blank= no option

Example: ELXN400R-2LED

¹Remote capacity can only be used to power the EF43D or EF44D remote fixtures or to extend the battery units emergency run time beyond the standard 90 minutes.

EF43D & EF44D Series
Low energy and low maintenance for moderate budget application

The Cluster™ LED EF43D-LED or EF44D-LEDWP
The Cluster™ LED EF43D-LED or EF44D-LEDWP Remote head can ONLY be powered from the ELXN400 LED series combo or EL-2LED battery units of the same family. Used for internal or external applications, the indoor remote head draws 3.6V-3.6W and Weather-Proof head draws 3.6V-3.8W.

Photometric performance

Center-to-center spacing

Mounting height

6ft

Dimensions
Dimensions are approximate and subject to change.

How to order

Series # of lamps Lamp Option
EF43= Indoor series D= 2 -LED= round LED array Blank= Indoor remote
EF44= Outdoor weather-proof series
WP= Outdoor weather proof remote

Example: EF43D-LED
EL-2SQL LED Series
1W LED heads, thermoplastic 3.6V nickel-cadmium battery unit

Housing
- UV stabilized thermoplastic body
- Two fully adjustable glare-free square lighting heads
- White finish

Mounting
- Ceiling or wall mount
- Universal J-box mounting

Lamp type
Two 3.6V-1W LED heads, 100 lumens per head

Options
- Remote capacity for EF12D-LED or EF47DSQL available with optional

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Advanced Diagnostics
- 120/277 60Hz

Battery type
- 3.6V maintenance free rechargeable nickel-cadmium battery

Approvals
- UL 924 listed
- Damp location (50°F to 104°F)
- UL 94, 5VA flame rated

Warranty
(subject to proper installation and maintenance)
- Unit has a three-year warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Photometric performance

<table>
<thead>
<tr>
<th>Spacing center-to-center (feet)</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>13'</td>
<td>1'</td>
<td>4'</td>
</tr>
</tbody>
</table>

Center-to-center spacing

Mounting height

Photometric spacing for IFC average
### Dimensions
Dimensions are approximate and subject to change.

![Diagram of dimensions](image)

### Power consumption

<table>
<thead>
<tr>
<th>Series</th>
<th>AC specs</th>
<th>DC specs</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units dual voltage¹</td>
<td>Battery Voltage</td>
<td></td>
</tr>
<tr>
<td>EL-2SQL</td>
<td>120/277 VAC, 60Hz</td>
<td>0.024A</td>
<td></td>
</tr>
<tr>
<td>EL-2SQLR</td>
<td>120/277 VAC, 60Hz</td>
<td>0.028A</td>
<td>2 X 022433-E</td>
</tr>
<tr>
<td>EL-2SQLRAD</td>
<td>120/277 VAC, 60Hz</td>
<td>Nickel-cadmium battery 3.6V</td>
<td></td>
</tr>
</tbody>
</table>

¹To be used with EF47DSQL or EF12D-LED only

### Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement battery for EL-2SQL</td>
<td>022433-E</td>
</tr>
<tr>
<td>Replacement battery for EL-2SQLR &amp; EL-5SQLRAD</td>
<td>2 X 022433-E</td>
</tr>
<tr>
<td>Wire guard (heads in any position)</td>
<td>WG10-E</td>
</tr>
<tr>
<td>Pendant black</td>
<td>P*BK</td>
</tr>
<tr>
<td>Pendant white</td>
<td>P*WT</td>
</tr>
</tbody>
</table>

### How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Head style</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL= Self-powered</td>
<td>-2SQL</td>
<td>Blank= No option</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R= Remote capacity to power one double head remote¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R-AD= Remote capacity to power one double head dedicated remote with Advanced-Diagnostics³</td>
</tr>
</tbody>
</table>

Example: EL-2SQLAD
### ELX400 SQL LED Series
Combination unit with tool-less field-adjustable heads to accommodate top mount requirements

**Construction**
- UV stabilized thermoplastic body
- Fully adjustable Square LED glare-free heads
- 6 inch EXIT lettering legend, available in red or green
- Field selectable chevrons

**Mounting**
- Surface mount
- Canopy included for ceiling mount applications / end mount
- Universal J-box mounting

**Finishes**
- White

**Remote capacity/combination units**
- ELXN400-2SQLR and ELXN400-2SQLRAD feature a 3.6V Ni-Cd battery with two 1W LED heads attached as well as 3W of remote capacity for EF12D-LED or EF47DSQL

**Lamp head source**
- 3.6V-1W LED head
- Lamp heads are fully adjustable to top or side with no tools required.
- 100 lumens per head

**Electronics**
- Optional Advanced Diagnostics
- 120/277 60Hz

**Approvals**
- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°F)
- UL 94, 5VA flame rated

**Warranty** (subject to proper installation and maintenance)
- Unit has a three-year warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

---

**Photometric performance**

<table>
<thead>
<tr>
<th>Spacing center-to-center (feet)</th>
<th>7 ft. mounting height</th>
<th>15 ft. mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center-to-center spacing</td>
<td>13'</td>
<td>4'</td>
</tr>
</tbody>
</table>

---

**Diagram**
- Photometric spacing for IFC average
- Center-to-center spacing
- Mounting height
- Photometric spacing
Dimensions
Dimensions are approximate and subject to change.

Power consumption

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>120/277VAC, 60Hz, 0.048A</td>
<td></td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard (heads in any position)</td>
<td>WG10-E</td>
</tr>
<tr>
<td>Replacement battery for ELXN400-2SQL</td>
<td>022434-E</td>
</tr>
<tr>
<td>Replacement battery ELXN400-2SQLR</td>
<td>022435-E</td>
</tr>
<tr>
<td>Replacement battery ELXN400-2SQLRAD</td>
<td>022435-E</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Legend</th>
<th>Heads</th>
<th>Options</th>
</tr>
</thead>
</table>
| ELXN400 | R= Red  
G= Green | -2SQL= 1WLED | Blank= No option  
R= Remote capacity to power one double head remote¹  
R-AD= Remote capacity to power one double head dedicated remote with Advanced-Diagnostics¹ |

Example: ELXN400R-2SQLRAD

¹To be used with EF47DSQL or EF12D-LED only
ELX Remote Capable Exit Series
Economical, thermoplastic LED exit sign

Construction
- UV stabilized thermoplastic body
- 6 inch exit lettering legend, available in red or green
- Field selectable chevrons
- Standard universal faces

Mounting
- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-box mounting

Finishes
- White

Electronics
- Optional Advanced Diagnostics
- 120/277 60Hz
- Sealed maintenance free Nickel-Cadmium battery for self-powered models

Approvals
- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°F)
- UL 94, 5VA flame rated

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty

Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

| Description                | 120/277VAC, 60Hz maximum 2.5W |

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard (wall mount)</td>
<td>WG1-E</td>
</tr>
<tr>
<td>Wire guard (ceiling mount and end mount)</td>
<td>WG5-E</td>
</tr>
<tr>
<td>Battery</td>
<td>820.0106-E</td>
</tr>
<tr>
<td>Pendant white</td>
<td>P*WT</td>
</tr>
<tr>
<td>Pendant black</td>
<td>P*BK</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Legend color</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELX400</td>
<td></td>
<td>Blank</td>
</tr>
<tr>
<td>ELXN400</td>
<td></td>
<td>Blank= No options</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-AD= Advanced Diagnostics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-RAD= Advanced Diagnostics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>with 3.6V-3.6W remote capacity¹</td>
</tr>
</tbody>
</table>

Example: ELXN400RN-RAD

¹Available with red legend only, compatible with EF41DSQL or EF12D-LED
EF47DSQL Series
Thermoplastic square LED
Indoor remote heads

Features
- Thermoplastic dual head remote
- LED 3.6V, 2W total
- 6000K LED color
- Wall or ceiling mount
- Damp location 50°F to 104°F (10°C to 40°F)
- UL 924 listed

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty

Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7' mounting height</td>
</tr>
<tr>
<td>EF47</td>
<td>13' 4'</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.

Example: EF47DSQL

---

EF12D-LED Series
Thermoplastic square LED
Outdoor remote heads

Features
- Multi-volt 3.6, 6 or 12V, 3W in total
- Thermoplastic housing and aluminum canopy with fully adjustable LED heads
- Available only in gray 2-heads configuration
- Suitable for outdoor, wet location applications
- Wall or ceiling mount
- -4°F to 122°F
- UL 924 Listed

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty

Detailed warranty terms located on page 188 or online at:

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7' mounting height</td>
</tr>
<tr>
<td>EF12</td>
<td>13' 4'</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.

Example: EF12D-LED
DLM-2 Series
Thermoplastic housing 6V-12W capacity lead-calcium battery unit

Housing
- UV stabilized thermoplastic body
- White housing

Mounting
- Ceiling or wall mount
- Universal J-box mounting

Lamp Type
- 5.4W high intensity wedge base incandescent lamps

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- 120/277 60Hz

Sealed maintenance-free battery
- 6V lead calcium battery

Approvals
- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°F)
- UL 94, 5VA flame rated

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Power consumption

<table>
<thead>
<tr>
<th>Series</th>
<th>Batt. type</th>
<th>DC voltage</th>
<th>Battery capacity in watts</th>
<th>Units dual current Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLM-2</td>
<td>Lead-calcium</td>
<td>6V</td>
<td>12</td>
<td>120VAC 0.04A 277VAC 0.04A</td>
</tr>
</tbody>
</table>

1 Stand-by power consumption is 50% lower for lead-calcium batteries.

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guard</td>
<td>WG1-E</td>
</tr>
</tbody>
</table>

How to order

Series
DLM-2= DLM-2 battery-powered emergency lighting

Example: DLM-2
GS Series
6 Volt Recessed Down Light

Housing
- Low profile polycarbonate white trim
- Fully recessed steel backbox

Mounting
- Ceiling or wall recessed mount

Lamp Type
- 6V 10 watt wedge-base incandescent lamp

Electronics
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- 120/277 60Hz

Sealed maintenance-free battery
- 6V lead-calcium battery

Approvals
- UL 924 listed

Warranty (subject to proper installation and maintenance)
- Unit has a three-year warranty
  Detailed warranty terms located at:

Dimensions
Dimensions are approximate and subject to change.

<table>
<thead>
<tr>
<th>Sealed maintenance-free battery types</th>
<th>D.C. voltage</th>
<th>Model number</th>
<th>Battery capacity in watts</th>
<th>A.C. voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead-calcium</td>
<td>6</td>
<td>GSM10-BH</td>
<td>1-1/2 hrs 10 8 – –</td>
<td>120VAC .3A</td>
</tr>
</tbody>
</table>

1 Stand-by power consumption is 50% lower for lead-calcium batteries.

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote test switch (metal face plate)</td>
<td>RTS</td>
</tr>
<tr>
<td>Remote test switch (plastic face plate)</td>
<td>RTS-1</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Color</th>
<th>Series</th>
<th>Battery type</th>
<th>Lamp option</th>
<th>Mounting option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>White</td>
<td>GS= Series</td>
<td>M10= 10W lead-calcium</td>
<td>Wedge base 9W standard</td>
</tr>
</tbody>
</table>

Example: GSM10BH
Emergency
Self-contained battery-powered systems

Use emergency LED drivers or fluorescent ballasts to power new or existing fixtures as emergency lighting units. Emergency LED drivers and fluorescent ballasts are available in a range of lumen output capacities.

• Space-saving design mounts directly on or in a fixture
• Compact power source operates one or two lamps in a fixture
• Units do not interfere with the look of existing lighting

---

01 FPDL Series
Convert new or existing fluorescent fixtures into emergency lighting units with emergency ballasts
See page 143 for more information about this product

02 LEDDR Series
Emergency LED driver
Convert new or existing LED fixtures into emergency lighting units with constant power emergency LED drivers
See page 142 for more information about this product
# Table of contents
Emergency self-contained battery-powered systems

## Emergency LED drivers
- **LEDDR Series**
  - Page 142

## Emergency ballast packs
- **About emergency ballasts**
  - Page 140
- **Ballast/lamp reference chart**
  - Page 141
- **FPDL Series**
  - Page 143
- **FPDL 4 Pin Series**
  - Page 144

## Generator transfer devices
- **EPC Series**
  - Page 145
- **EPC-FM Series**
  - Page 146
- **EPC-2 Series**
  - Page 148
About emergency fluorescent ballast packs

Emergency fluorescent ballast packs are completely self-contained battery-powered systems designed to invert DC battery current to AC current in order to operate AC lighting loads in the event of an emergency.

Under normal conditions: AC current flows into the ballast, keeping the DC batteries charged, and AC current continues to power the AC lighting fixture. In an Emergency situation: When AC current stops flowing into the ballast, the Inverter converts DC battery current into AC current to power the AC lighting fixture.

Lumens and wattage capacities
Emergency fluorescent ballasts come in various lumen output capacities and are designed to operate only 1 or 2 lamps in a fluorescent fixture type.

Emergency fluorescent ballasts
Designed to operate fluorescent lighting loads, these ballasts can be mounted directly on or in the existing fluorescent fixture and are meant to operate one or two lamps within that fixture.

Emergency fluorescent ballasts are selected based on the lumen output levels needed in an emergency situation and the lamp type being used in the fluorescent fixture during normal AC operation.
<table>
<thead>
<tr>
<th>Model #</th>
<th>FPDL32</th>
<th>FPDL-28</th>
<th>FPDL3-42-N</th>
<th>FPDL/U</th>
<th>FPDL-HL-N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumens</td>
<td>500</td>
<td>750</td>
<td>750</td>
<td>1350</td>
<td>3000</td>
</tr>
</tbody>
</table>

### Lamp type (# of lamps)

**Linear lamps**

- 2'-4' Rapid, Instant, Energy Saving, T8 thru T12 (1)
- 2'-8' Rapid, Instant, Energy Saving, T8 thru T12, HO & VHO (1)

<table>
<thead>
<tr>
<th>Lamp type (# of lamps)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear lamps</td>
<td></td>
</tr>
<tr>
<td>F15 T8 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F17 T8 (2)</td>
<td>X</td>
</tr>
<tr>
<td>F17 T8 (3)</td>
<td>X</td>
</tr>
<tr>
<td>F25 T8 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F25 T8 (2)</td>
<td>X</td>
</tr>
<tr>
<td>F28 T8 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F32 T8 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F32 T8 (2)</td>
<td>X</td>
</tr>
<tr>
<td>F40 T8 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F40 T8 (2)</td>
<td>X</td>
</tr>
<tr>
<td>14W T5 (1)</td>
<td>X</td>
</tr>
<tr>
<td>14W T5 (2)</td>
<td>X</td>
</tr>
<tr>
<td>21W T5 (1)</td>
<td>X</td>
</tr>
<tr>
<td>21W T5 (2)</td>
<td>X</td>
</tr>
<tr>
<td>24W T5 (1)</td>
<td>X</td>
</tr>
<tr>
<td>28W T5 (1)</td>
<td>X</td>
</tr>
<tr>
<td>39W T5 (2)</td>
<td>X</td>
</tr>
<tr>
<td>54W T5 HO (1)</td>
<td>X</td>
</tr>
<tr>
<td>54W T5 HO (2)</td>
<td>X</td>
</tr>
<tr>
<td>F20 T12 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F20 T12 (2)</td>
<td>X</td>
</tr>
<tr>
<td>F40 T12 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F40 T12 (2)</td>
<td>X</td>
</tr>
<tr>
<td>F48 T12 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F96 T12 60W (1)</td>
<td>X</td>
</tr>
</tbody>
</table>

**Compact lamps – Bi-ax lamps**

<table>
<thead>
<tr>
<th>Lamp type (# of lamps)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact lamps – Bi-ax lamps</td>
<td></td>
</tr>
<tr>
<td>18W Long Compact (1)</td>
<td>X</td>
</tr>
<tr>
<td>18W Long Compact (2)</td>
<td>X</td>
</tr>
<tr>
<td>24W Long Compact (1)</td>
<td>X</td>
</tr>
<tr>
<td>24W Long Compact (2)</td>
<td>X</td>
</tr>
<tr>
<td>36W Long Compact (1)</td>
<td>X</td>
</tr>
<tr>
<td>36W Long Compact (2)</td>
<td>X</td>
</tr>
<tr>
<td>40W Long Compact (1)</td>
<td>X</td>
</tr>
<tr>
<td>40W Long Compact (2)</td>
<td>X</td>
</tr>
<tr>
<td>50W Long Compact (1)</td>
<td>X</td>
</tr>
<tr>
<td>50W Long Compact (2)</td>
<td>X</td>
</tr>
<tr>
<td>55W Long Compact (1)</td>
<td>X</td>
</tr>
<tr>
<td>7W PL CF 2-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>9W PL CF 2-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>13W PL CF 2-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>18W PL CF 2-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>26W PL CF 2-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>13W PL CF 4-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>15W PL CF 4-Pin (2)</td>
<td>X</td>
</tr>
<tr>
<td>18W PL CF 4-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>26W PL CF 4-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>26W PL CF 4-Pin (2)</td>
<td>X</td>
</tr>
<tr>
<td>32W PL CF 4-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>32W PL CF 4-Pin (2)</td>
<td>X</td>
</tr>
<tr>
<td>42W PL CF 4-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>42W PL CF 4-Pin (2)</td>
<td>X</td>
</tr>
<tr>
<td>57W PL CF 4-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>57W PL CF 4-Pin (2)</td>
<td>X</td>
</tr>
<tr>
<td>70W PL CF 4-Pin (1)</td>
<td>X</td>
</tr>
<tr>
<td>70W PL CF 4-Pin (2)</td>
<td>X</td>
</tr>
<tr>
<td>20W Circline (1)</td>
<td>X</td>
</tr>
<tr>
<td>22W Circline T9 (1)</td>
<td>X</td>
</tr>
<tr>
<td>22W Circline T5 (1)</td>
<td>X</td>
</tr>
<tr>
<td>24W Circline T8 (1)</td>
<td>X</td>
</tr>
<tr>
<td>40W Circline T8 (1)</td>
<td>X</td>
</tr>
<tr>
<td>40W Circline T5 (1)</td>
<td>X</td>
</tr>
<tr>
<td>55W Circline T5 (1)</td>
<td>X</td>
</tr>
<tr>
<td>F28 2D (1)</td>
<td>X</td>
</tr>
<tr>
<td>F38 2D (1)</td>
<td>X</td>
</tr>
<tr>
<td>F38 2D (2)</td>
<td>X</td>
</tr>
</tbody>
</table>
**LEDDR Series Emergency LED driver**

Convert new or existing LED fixtures into emergency lighting units with constant power emergency LED drivers

**Calculate lumen output during emergency operation**

- Lumen output = Efficacy (Lumen/watt) X emergency LED driver wattage
- In order to understand luminaire efficacy:
  - Access luminaire data by logging onto Design Lites Consortium
  - www.designlights.org
  - Select ‘Search the DLC Qualified Product List’ on the DLC homepage
  - Enter manufacturer name and P/N of luminaire under consideration in the ‘search by keyword’ text window
  - Select ‘Search’ tab to open the ‘Qualified Products List’
  - Determine luminaire Lumens per Watt efficacy in ‘Rated Data’ specifications
  - Multiply luminaire lumens per watt by emergency output of the ‘LED Driver’ model under consideration

**Housing**

- High impact thermoplastic enclosure, 5VA flame retardant in black finish
- LED illuminated remote test switch

**Mounting**

- Suitable for installation on top or remotely

**Lamp types**

- LED lamps with 20VDC to 50VDC operating voltage
- Can be wired for normally-on, normally off or switched loads
- Lumen output depends on LED light source efficacy (Lumens/watts)

**Electronics**

- Universal 120/277, 50/60Hz input
- Provides 90 minutes of emergency operation
- Surge protection
- Output classification: Class 2 compliant
- Output and input overcurrent protection
- Constant power supply in emergency mode

**Battery**

- Long-life maintenance free rechargeable nickel-cadmium battery
- 24 hour battery recharge time

**Approvals**

- Damp location listed
- UL classified for field or factory installation
- UL 924 approved, NFPA 101 life safety code, NEC, and OSHA

**Warranty** (subject to proper installation and maintenance)

- Unit has a five-year warranty

Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

**Electrical Information**

<table>
<thead>
<tr>
<th>Series</th>
<th>Output</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDDR-5</td>
<td>5W</td>
<td>3.9W</td>
</tr>
<tr>
<td>LEDDR-7</td>
<td>7W</td>
<td>4.8W</td>
</tr>
<tr>
<td>LEDDR11</td>
<td>11W</td>
<td>5.7W</td>
</tr>
<tr>
<td>LEDDR-14</td>
<td>14W</td>
<td>6.9W</td>
</tr>
<tr>
<td>LEDDR-17</td>
<td>17W</td>
<td>7.9W</td>
</tr>
</tbody>
</table>

**Dimensions**

Dimensions are approximate and subject to change.

<table>
<thead>
<tr>
<th>Series</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDDR-5</td>
<td>11.46&quot;</td>
<td>2.63&quot;</td>
<td>1.48&quot;</td>
</tr>
<tr>
<td>LEDDR-7</td>
<td>15.35&quot;</td>
<td>2.63&quot;</td>
<td>1.48&quot;</td>
</tr>
<tr>
<td>LEDDR11</td>
<td>15.35&quot;</td>
<td>2.63&quot;</td>
<td>1.48&quot;</td>
</tr>
<tr>
<td>LEDDR-14</td>
<td>19.19&quot;</td>
<td>2.63&quot;</td>
<td>1.48&quot;</td>
</tr>
<tr>
<td>LEDDR-17</td>
<td>19.19&quot;</td>
<td>2.63&quot;</td>
<td>1.48&quot;</td>
</tr>
</tbody>
</table>

**How to order**

Example: LEDDR-7

<table>
<thead>
<tr>
<th>Series</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDDR-5</td>
<td>5</td>
</tr>
<tr>
<td>LEDDR-7</td>
<td>7</td>
</tr>
<tr>
<td>LEDDR11</td>
<td>11</td>
</tr>
<tr>
<td>LEDDR-14</td>
<td>14</td>
</tr>
<tr>
<td>LEDDR-17</td>
<td>17</td>
</tr>
</tbody>
</table>
FPDL Linear Emergency Fluorescent Battery pack
Convert new or existing fluorescent fixtures into emergency lighting units with emergency ballasts

Housing
- Low profile steel housing contains, battery, battery charger, transfer circuit and high frequency inverter
- Optional end caps available
- Operating temperature 68°F to 122°F (20°C to 50°C)

Mounting
- Internal or external mounting to a fluorescent fixture

Lamp type operation
- Refer to ballast/lamp reference chart for specific lamp type page 141

Electronics
- Can be wired to operate switched, un-switched or normally off fixtures without affecting normal operation
- Will cold start and illuminate lamps
- Dual voltage 120/277VAC, 2.5W

Controls
- Momentary test switch allows for quick operational check of entire system

Sealed maintenance-free battery
- Nickel-cadmium battery
- Provides 90 minutes of emergency operation

Approvals
- UL 924 listed damp location (50°F to 104°F)
- Damp location listed

Warranty (subject to proper installation and maintenance)
- Unit has a five-year warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>External mounting kit includes wire bundle cover</td>
<td>071139-E</td>
</tr>
<tr>
<td>Remote test switch (metal faceplate)</td>
<td>RTS</td>
</tr>
<tr>
<td>Remote test switch (plastic faceplate)</td>
<td>RTS-1</td>
</tr>
<tr>
<td>Recommended for inaccessible locations. Test switch and charging indicator on a single mounting plate.</td>
<td></td>
</tr>
<tr>
<td>Replacement test switch</td>
<td>TBTSP-E</td>
</tr>
</tbody>
</table>

Dimensions
Dimensions are approximate and subject to change.

Example: FPDL-HL-N
FPDL 4 Pin Series
Convert new or existing fluorescent fixtures into emergency lighting units
750 lumen emergency ballast

Housing
- Steel housing contains, battery, battery charger, transfer circuit and high frequency inverter
- Operating temperature 32°F to 122°F(0°C to 50°C)

Mounting
- Internal or external mounting to a fluorescent fixture

Lamp type operation
- Refer to ballast/lamp reference chart for specific lamp type page 135

Lumen output
- (1) Lamp 350-750 lumens
- (2) Lamps 425-750 lumens

Electronics
- Can be wired to operate switched, un-switched or normally off fixtures without affecting normal operation
- Will cold start and illuminate lamps
- High capacity, automatic, dust-tight instantaneous transfer relay
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection
- Battery connector prevents battery discharge during installation

Controls
- Red charger monitor LED indicates charging of the battery and AC present
- Momentary test switch allows for quick operational check of entire system

Sealed maintenance-free battery
- Nickel-cadmium battery
- Provides 90 minutes of emergency operation

Power requirements
- Dual voltage 120/277VAC, 60Hz, 1.8W

Approvals
- UL 924 standards
- Damp location listed

Warranty (subject to proper installation and maintenance)
- Unit has a five-year warranty
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote test switch (metal faceplate)</td>
<td>RTS</td>
</tr>
<tr>
<td>Remote test switch (plastic faceplate)</td>
<td>RTS-1</td>
</tr>
<tr>
<td>Replacement test switch</td>
<td>TBTSP-E</td>
</tr>
</tbody>
</table>

How to order

Series
FPDL-13-42-N

Example: FPDL-13-42-N

Dimensions
Dimensions are approximate and subject to change.
EPC Series
Emergency transfer switch for generator and mini inverters. Supplies power to switched lighting fixtures.

Mechanical specifications
- Mounts in 4-11/16” Junction box with single gang plaster ring
- UL94-5VA rating
- Shipping weight: 8 oz
- Temperature: 32°F - 140°F (0°C - 60°C)
- Color: White
- Flush mounted size: 4-3/4” x 2-3/4” x 1/4”
- Body size: 2-7/8” x 1-3/4” x 1-3/4”

Emergency Operation:
- The EPC-1-E & EPC-1-D-E will operate any lamp type in the designated fixture for the duration of the generator supply.

Initial illumination:
- The EPC-1-E & EPC-1-D-E will operate the designated lamp at full light output

Approval:
- UL924 Listed

Wiring diagrams:
- Visit our website: http://www.emergi-lite.com

Dimensions
Dimensions are approximate and subject to change.

Housing
- Thermoplastic UL94-5VA suitable for plenum installations
- Compatible with LED, fluorescent and incandescent lamp types including standard, energy-saving, and electronic AC drivers and ballasts

Mounting
- Wall and ceiling mount

Options
- 0-10V Dimming standard on the EPC-1-D-E model
- Advanced Diagnostics standard on the EPC-1-E model

Lamp types
- During utility power interruption, automatically connects generator or inverter circuit to emergency fixture and bypasses switching control to full light output for duration of inverter or generator supply

Lumen output
- Allows switching control of emergency fixtures during normal operation
- Allows auxiliary generator power on a switched lighting fixture

Power requirements
- Dual voltage 120/277V 60Hz

Approvals
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements

Warranty
- (subject to proper installation and maintenance)
- Unit has a five-year warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

How to order

Series
EPC-1-E = Emergency transfer switch
EPC-1-D-E = Emergency transfer switch with Advanced Diagnostics and 0-10 dimming

Example: EPC-1-E

—
EPC Fixture Mounted Series
Emergency power control for generator and mini inverters. Supplies power to switched lighting fixtures.

Mechanical specifications
- UL94-5VA rating
- Shipping weight: 8 oz
- Damp location
- Temperature: 32°F - 140°F (0°C - 60°C)
- Color: Black
- Body size: 4.9” x 0.9” x 1.2”

Emergency Operation:
- The EPC-2-FM-E & EPC-2-FM-D-E will operate any lamp type in the designated fixture for the duration of the generator or mini inverter supply.

Initial illumination:
- The EPC-2-FM-E & EPC-2-FM-D-E will operate the designated lamp at full light output

Approval:
- UL924 Listed

Wiring diagrams:
- Visit our website: http://www.emergi-lite.com

How to order

Series
EPC-2-FM-E: Emergency transfer switch fixture mounted with Advanced Diagnostics
EPC-2-FM-D-E: Emergency transfer switch fixture mounted with Advanced Diagnostics and 0-10 dimming

Example: EPC-2-FM-E

1When using EPC-FM-2-E and EPC-FM-2-D-E to control more than 10 emergency ballasts with a high corrective power factor capacitor, consult factory for more information regarding inrush currents.
Single line drawing

- Normal utility power
- Normal panel
- Emergency power source
- UL 1008 Transfer switch or equivalent
- Emergency panel
- Zone controller
- EPC-2-FM
- Regular room lights
- Designated emergency light
- EPC-2-FM Control

Wiring diagram

- 20A
- Emergency hot
- #6 Blue
- #5 Yellow
- #4 White/Blue
- Emergency light
- EM Power
- Utility Power
- TEST
- Red fire alarm jumper
- Normal Hot
- #1 Black
- #2 Red
- #3 White
- Normal light (optional)
- Normal Neutral
- * Relay panel, power pack, sensor, or other (optional)

Specifications

**Electrical**
- Model number: EPC-2-FM
- Sensing input: 120V-277V
- LED load rating: 1A (120-277V)
- Ballast load rating: 5A (120-277V)
- Incandescent load: 360W (120V)/600W (277V)
- Warranty: Five-year replacement warranty

**Mechanical**
- Mounting: Fixture mount, panel mount
- Rating: UL94-5VA, Damp location rated
- Shipping weight/Color: 8 oz./Black
- Temperature: 32°F - 32°F (0°C - 60°C)
- Body size: 125mm X 25.4 mm X 30mm (L X H X W)
EPC 2 Series
Emergency power control for generator and mini inverters. Supplies power to switched lighting fixtures.

Mechanical specifications
- Mounts in 4-11/16” Junction box with single gang plaster ring
- UL94-5VA rating
- Shipping weight: 12oz
- Temperature: 32°F - 140°F (0˚C - 60˚C)
- Color: White
- Flush mounted single gang
- Body size: 3” x .7” x 1.2”

Emergency Operation:
- The EPC-2-E & EPC-2-D-E will operate any lamp type in the designated fixture for the duration of the generator or mini inverter supply.

Initial Illumination:
- The EPC-2-E & EPC-2-D-E will operate the designated lamp at full light output

Approval:
- UL924 Listed

Wiring diagrams:
- Visit our website: http://www.emergi-lite.com

Mounting

Housing
- Thermoplastic UL94-5VA suitable for plenum installations
- Compatible with LED, fluorescent and incandescent lamp types including standard, energy-saving, and electronic AC drivers and ballasts¹

Mounting
- Wall and ceiling mount

Options
- 0-10V Dimming standard on the EPC-2-D-E model
- Advanced Diagnostics standard on the EPC-2-E and EPC-2-D-E models

Lamp types
- During utility power interruption, automatically connects generator or inverter circuit to emergency fixture and bypasses switching control to full light output for duration of inverter or generator supply

Lumen output
- Allows switching control of emergency fixtures during normal operation
- Allows auxiliary generator power on a switched lighting fixture

Power requirements
- Dual voltage 120/277V 60Hz

Approvals
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements

Warranty (subject to proper installation and maintenance)
- Unit has a five-year warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

¹When using EPC-2-E & EPC-2-D-E to control more than 10 emergency ballasts with a high corrective power factor capacitor, consult factory for more information regarding inrush currents.

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPC-2-E</td>
<td>Emergency transfer switch</td>
</tr>
<tr>
<td>EPC-2-D-E</td>
<td>Emergency transfer switch with Advanced Diagnostics and 0-10 dimming</td>
</tr>
</tbody>
</table>

Example: EPC-2-E
Single line drawing

Wiring diagram

Specifications

<table>
<thead>
<tr>
<th>Electrical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>EPC-2</td>
</tr>
<tr>
<td>Sensing input</td>
<td>120V-277V</td>
</tr>
<tr>
<td>LED load rating</td>
<td>120V-277V (20A)</td>
</tr>
<tr>
<td>Ballast load rating</td>
<td>20A (120-277V)</td>
</tr>
<tr>
<td>Incandescent load</td>
<td>1200W (120V)/1500W (277V)</td>
</tr>
<tr>
<td>Warranty</td>
<td>Five-year replacement warranty</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>4-11/16&quot; Junction box with single gang plaster</td>
</tr>
<tr>
<td>Rating</td>
<td>UL94-5VA</td>
</tr>
<tr>
<td>Shipping weight/Color</td>
<td>12 oz. / White</td>
</tr>
<tr>
<td>Temperature</td>
<td>32°F - 140°F (0°C - 60°C)</td>
</tr>
<tr>
<td>Flush mounted size</td>
<td>Single gang size</td>
</tr>
<tr>
<td>Body size</td>
<td>1.7&quot; X 3&quot; X 1.2&quot; (W X H X D body)</td>
</tr>
</tbody>
</table>
Central & inverter systems

Self-contained inverter systems are designed to meet the unique needs of emergency lighting loads. Inverters provide power to existing lighting to function as emergency lighting when main power fails.

- Minimizes maintenance required for testing
- Compact Mini Inverters are ideal for LED, incandescent, and fluorescent lighting, and are available in up to 1000W models
- Interruptible Power Systems (IPS) are available in single phase from 1500VA to 16700VA
- Uninterruptible Power Systems (UPS) are available in single phase models from 1500VA to 16700VA, and in three phase models from 4800VA to 50,000VA
# Table of contents

Central & inverter systems

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td>154</td>
<td>156</td>
<td>158</td>
<td>160</td>
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<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>162</td>
<td>164</td>
<td>166</td>
<td>168</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>169</td>
<td>170</td>
<td>171</td>
</tr>
</tbody>
</table>
Low Capacity Mini Inverter Series
Interruptible unit equipment

Housing
- Heavy-duty steel cabinet
- White baked on powder paint coating provides scratch and corrosion resistance

Mounting
- Surface mount
- Recessed T-bar (plenum rated)

Lamp types operated
- LED
- Incandescent
- Fluorescent
- Operates switched, normally-on or normally-off fixture types, incandescent,
- LED, fluorescent and ballast combinations, including triac dimmable ballasts

Load capacity
- 32W, 55W
- Allows for remote mounting of the emergency fixtures at distances of up to 1000 feet
- May accept load when load feature power factor range from 0.44 lead to 0.44 lag

Electronics
- Pure sine wave inverter
- Temperature compensated charger
- Low battery voltage disconnect
- Unit comes standard with electronic lockout and brownout circuits

Controls
- Control panel with momentary test switch, AC-On, Charger-On and
- Inverter-On LED indicators
- Sealed maintenance-free battery
- 12V oversized valve regulated lead-calcium (VRLA) battery
- Provides 90 minutes of emergency operation

Power requirements
- Choice of voltage: 120V in/120V out or 277V in/277V out operation, 60Hz

Approvals
- UL 924 Standard
- Meets or exceeds all National Electric Codes and Life Safety Code
- Emergency lighting requirements

Warranty
- Unit has a three year full warranty (excluding lamps and fuses).
- Battery has a three-year full, plus an additional three year pro-rata warranty
Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

All Emergi-Lite® inverter products receive 100% quality inspection before shipment to insure proper and satisfactory operation.
### Specifications

<table>
<thead>
<tr>
<th>Transfer time</th>
<th>Voltage regulation on emergency</th>
<th>Frequency regulation on emergency</th>
<th>Load power factor range</th>
<th>Operating temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 1 second</td>
<td>+/- -5%</td>
<td>60 Hz +/- 0.5%</td>
<td>0.44 lead to 0.44 lag</td>
<td>68° to 86°F (20° to 30°C)</td>
</tr>
</tbody>
</table>

### Electrical characteristics and dimensions

<table>
<thead>
<tr>
<th>System type</th>
<th>Power rating</th>
<th>Sine wave</th>
<th>Installation</th>
<th>Cabinet dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMILC32-S</td>
<td>32W/VA</td>
<td>Yes</td>
<td>Surface mount</td>
<td>Width: 14-3/4&quot; Height: 6-7/8&quot; Depth: 3-1/8&quot;</td>
<td>1</td>
</tr>
<tr>
<td>EMILC32-T</td>
<td>32W/VA</td>
<td>Yes</td>
<td>T-grid mount</td>
<td>Width: 23-7/8&quot; Height: 6-1/4&quot; Depth: 4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>EMILC55-S</td>
<td>55W/VA</td>
<td>Yes</td>
<td>Surface mount</td>
<td>Width: 14-3/4&quot; Height: 6-7/8&quot; Depth: 4-3/8&quot;</td>
<td>1</td>
</tr>
<tr>
<td>EMILC55-T</td>
<td>55W/VA</td>
<td>Yes</td>
<td>T-grid mount</td>
<td>Width: 23-7/8&quot; Height: 6-1/4&quot; Depth: 4&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

NOTE: For wiring diagram, please refer to the specification sheets

### Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model number</th>
<th>Input rating</th>
<th>Emergency power available for load (90min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMILC32</td>
<td>41VA</td>
<td>32W</td>
</tr>
<tr>
<td>EMILC55</td>
<td>64VA</td>
<td>55W</td>
</tr>
</tbody>
</table>

### How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Capacity</th>
<th>Voltage</th>
<th>Battery type</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMILC</td>
<td>32= 32W/VA</td>
<td>Blank</td>
<td>Blank= Lead-calcium</td>
<td>-S= Surface mount housing -T= Plenum rated ceiling T-grid mount housing</td>
</tr>
<tr>
<td></td>
<td>55= 55W/VA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: EMILC32-S
Mini Inverter Series
Interruptible unit equipment 125W, 250W, 400W or 720W

Housing
- 14-gauge steel
- White semi-gloss powered-coat paint finish

Mounting
- Surface mount
- Optional recessed T-bar (125W unit only)

Lamp types operated
- LED
- Incandescent
- Fluorescent
- Operating switched, normally-on or normally-off fixture types
- Incandescent, LED, fluorescent lamps and ballast combinations, including triac dimmable ballasts (consult factory if DALI dimming)

Load capacity
- 125W, 250W, 400W or 720W
- Line voltage allows for remote mounting of the emergency fixtures at distances up to 1000 feet
- May accept load to it’s full capacity when load feature power factor of 0.9 for 250W model and 0.8 for 125, 400 and 720W model

Electronics
- High-efficiency pure sine wave inverter at 250W capacity or higher
- Temperature compensated charger
- Replaceable output fuse protection
- Low battery voltage disconnect
- Unit comes standard with electronic lockout and brownout circuits

Controls
- Standard with a non-audible self diagnostic/charger is fully self-contained, fully automatic microcontroller-based system
- Optional audible auto diagnostic available
- Standard lighting control override for 0-10V dimming systems

Nexus® Option
- Units equipped with Nexus® self-testing monitoring system circuitry shall selftest, in accordance with NFPA101, Life Safety Code minimum 30 seconds every 30 days, 30 minutes every six months and 90 minutes annually as well as keep a history of all testing logs, plus feature a real-time diagnoses, as well as, be able to locate exact fixture location while notifying service personnel to the status of the fixture via email notification. Nexus® system interface with an improved minimum load lost detection of 10%

Sealed maintenance-free battery
- 12V oversized valve regulated lead-calcium (VRLA) battery
- Provides 90 minutes of emergency operation

Power requirements
- Choice of voltage 120V in/120V out or 277V in/277V out operation, 60Hz

Approvals
- UL 924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements

Warranty (subject to proper installation and maintenance)
- Battery has a 3-year full, plus 7-year pro-rata warranty
- Unit has a three-year warranty (excluding lamps and fuses)
  Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

All Emergi-Lite® inverter products receive 100% quality inspection before shipment to insure proper and satisfactory operation.
Specifications

<table>
<thead>
<tr>
<th>Transfer time</th>
<th>Voltage regulation on emergency</th>
<th>Frequency regulation on emergency</th>
<th>Load power factor range</th>
<th>Operating temperature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 1 second</td>
<td>+/-5%</td>
<td>60 Hz +/-1%</td>
<td>250W model: .9 leading to .9 lagging</td>
<td>68°F to 86°F (20°C to 30°C)</td>
<td>– – –</td>
</tr>
</tbody>
</table>

Replacement battery

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMIU-125</td>
<td>860.0024-E</td>
</tr>
<tr>
<td>EMIU-250</td>
<td>2X 860.0024-E</td>
</tr>
<tr>
<td>EMIU-400</td>
<td>2X 860.0043-E</td>
</tr>
<tr>
<td>EMIU-720</td>
<td>2X 860.0096-E</td>
</tr>
</tbody>
</table>

Electrical characteristics and dimensions

<table>
<thead>
<tr>
<th>Power rating</th>
<th>Sine wave</th>
<th>Installation</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>No. of battery</th>
<th>Total weight</th>
<th>Weight w/o battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>125W</td>
<td>Modified</td>
<td>T-bar</td>
<td>24”</td>
<td>6.5”</td>
<td>8”</td>
<td>1</td>
<td>50 lbs</td>
<td>22 lbs</td>
</tr>
<tr>
<td>125W</td>
<td>Modified</td>
<td>Wall</td>
<td>16.5”</td>
<td>12.2”</td>
<td>7.3”</td>
<td>1</td>
<td>50 lbs</td>
<td>22 lbs</td>
</tr>
<tr>
<td>250W</td>
<td>Pure</td>
<td>Wall</td>
<td>27”</td>
<td>12.2”</td>
<td>7.3”</td>
<td>2</td>
<td>100 lbs</td>
<td>45 lbs</td>
</tr>
<tr>
<td>400W</td>
<td>Pure</td>
<td>Wall</td>
<td>24”</td>
<td>20”</td>
<td>10.5”</td>
<td>2</td>
<td>150 lbs</td>
<td>65 lbs</td>
</tr>
<tr>
<td>720W</td>
<td>Pure</td>
<td>Wall</td>
<td>24”</td>
<td>20”</td>
<td>14.5”</td>
<td>2</td>
<td>220 lbs</td>
<td>95 lbs</td>
</tr>
</tbody>
</table>

Note: For wiring diagram, please refer to the specification sheets

Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model number</th>
<th>AC specs</th>
<th>90 Min</th>
<th>2H</th>
<th>3H</th>
<th>4H</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMIU-125</td>
<td>120/277VAC</td>
<td>1.15 / 0.70 Amps</td>
<td>125W</td>
<td>83W</td>
<td>62W</td>
</tr>
<tr>
<td>EMIU-250</td>
<td>120/277VAC</td>
<td>2.75 / 1.20 Amps</td>
<td>250W</td>
<td>167W</td>
<td>125W</td>
</tr>
<tr>
<td>EMIU-400</td>
<td>120/277VAC</td>
<td>4.60 / 2.00 Amps</td>
<td>400W</td>
<td>300W</td>
<td>200W</td>
</tr>
<tr>
<td>EMIU-720</td>
<td>120/277VAC</td>
<td>9.60 / 4.00 Amps</td>
<td>720W</td>
<td>480W</td>
<td>360W</td>
</tr>
</tbody>
</table>

How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Capacity</th>
<th>Voltage</th>
<th>Diagnostic feature</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMIU</td>
<td>-125= 125W</td>
<td>Blank = 120/120VAC or 277/277VAC</td>
<td>-Blank= Advanced Diagnostic, non-audible¹</td>
<td>-D3= Time delay (15 minutes)</td>
</tr>
<tr>
<td></td>
<td>-250= 250W</td>
<td></td>
<td>-AD= Advanced Diagnostic, audible¹</td>
<td>-SAC= Service alarm contact²</td>
</tr>
<tr>
<td></td>
<td>-400= 400W</td>
<td></td>
<td>-NAD= No auto test/ Advanced Diagnostics</td>
<td>-T= Recessed T-bar mounting (125W unit only)</td>
</tr>
<tr>
<td></td>
<td>-720= 720W</td>
<td></td>
<td>-NEX= Nexus® wired</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-NEXRF= Nexus® wireless</td>
<td></td>
</tr>
</tbody>
</table>

Example: EMIU-720

¹ Minimum load required: 10% of unit capacity
² Service alarm contact (SAC) shall provide a 24V signal, the charger board will indicate a fault by choosing a contact. Not available with 720 capacity
1000W High Capacity Mini Inverter Series
Interruptible unit equipment 1000W

Housing
- 14-gauge steel
- White semi-gloss powered-coat paint finish

Mounting
- Surface mount

Compatible loads
- LED
- Incandescent
- Fluorescent
- Operating switched, normally-on or normally-off fixture types
- Triac dimming
- DALI dimming – consult factory

Load capacity
- 1000W
- Line voltage allows for remote mounting of the emergency fixtures at distances up to 1000 feet

Electronics
- High-efficiency pure sine wave inverter
- Temperature compensated charger
- Replaceable output fuse protection
- Low battery voltage disconnect
- Unit comes standard with electronic lockout and brownout circuits

Controls
- Standard with a non-audible self diagnostic/charger is fully self-contained, fully automatic microcontroller-based system
- Optional audible auto diagnostic available
- Optional no Advanced Diagnostics available
- No Advanced Diagnostics option must be selected in conjunction with transfer switches
- Standard lighting control override for 0-10V dimming systems
- Optional 4 output circuits allow for multiple switch compatibility

Sealed maintenance-free battery
- 12V valve regulated lead-calcium (VRLA) batteries
- Provides 90 minutes of emergency operation power requirements
- Choice of voltage 120V input/120V output or 277V input/277V output operation, 60Hz

Approvals
- UL 924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements

Warranty
- Unit has a three-year warranty
- Detailed warranty terms located on page 188 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf
### Specifications

<table>
<thead>
<tr>
<th>Transfer time</th>
<th>Voltage regulation on emergency</th>
<th>Frequency regulation on emergency</th>
<th>Load power factor range</th>
<th>Operating temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 1 second</td>
<td>+/- 3%</td>
<td>60 Hz +/- 1%</td>
<td>0.8 at 120V</td>
<td>68° to 86°F (20° to 30°C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 at 277V</td>
<td></td>
</tr>
</tbody>
</table>

### Replacement battery

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMIU-1000</td>
<td>4X 860.0043-E</td>
</tr>
</tbody>
</table>

### Electrical characteristics and dimensions

<table>
<thead>
<tr>
<th>Power rating</th>
<th>Sine wave</th>
<th>Installation</th>
<th>Cabinet dimensions</th>
<th>No. of batteries</th>
<th>Total weight 120V &amp; 277V</th>
<th>Weight w/o battery 120V &amp; 277V</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000W</td>
<td>Pure</td>
<td>Wall / floor</td>
<td>24&quot; 40.75&quot; 10.5&quot;</td>
<td>4</td>
<td>266 lbs</td>
<td>114 lbs</td>
</tr>
<tr>
<td>1000W-4C</td>
<td>Pure</td>
<td>Wall / floor</td>
<td>24&quot; 40.75&quot; 14.5&quot;</td>
<td>4</td>
<td>350 lbs</td>
<td>198 lbs</td>
</tr>
</tbody>
</table>

### Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model number</th>
<th>AC specs</th>
<th>Emergency power available for load</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMIU-1000</td>
<td>120/277VAC 12.8 / 5.3 Amps</td>
<td>90 Min 2H 3H 4H</td>
</tr>
<tr>
<td></td>
<td>1000W 807W 604W 489W</td>
<td></td>
</tr>
</tbody>
</table>

### How to order

<table>
<thead>
<tr>
<th>Series</th>
<th>Capacity</th>
<th>Voltage</th>
<th>Diagnostic feature</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMIU</td>
<td>-1000= 1000W Blank= 120/120VAC or 277/277VAC</td>
<td>-Blank= Advanced-diagnostic, non-audible¹</td>
<td>-D3= Time delay (15 minutes)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-AD= Advanced-diagnostic, audible¹</td>
<td>-SAC= Service alarm contact²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-NAD= No auto test/</td>
<td>-4C= 4 output circuits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No advanced-diagnostics</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-NEX= Nexus® wired</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-NEXRF= Nexus® wireless</td>
<td></td>
</tr>
</tbody>
</table>

---

¹ Minimum load required: 10% of unit capacity

² Service alarm contact (SAC) shall be provided a 24V signal, the charger board will indicate a fault by closing a contact.
Emerg-Power systems
Features and benefits

Highlights

Performance
Emerg-Power Systems work with any type of lighting load to provide full light output for a minimum of 90 min. They are designed to support incandescent, fluorescent, HID*, quartz re-strike, LED or halogen lamps. They will work to power into these loads at cold starts for all normally off circuits or normally on circuits1.

1Except IPS systems

True Sine Waveform
Using a solid-state, pulse width modulation (PWM) inverter the systems produce pure sinusoidal output waveform with less than 3% maximum Total Harmonic Distortion (THD) for linear loads. Microprocessor and crystal controlled.

Reliability
Emerg-Power Systems use third generation inverter technology. The proven solid design and double ratings of all critical components. LVD (Low Voltage Disconnect) for long power outages eliminates battery drain.

Batteries
Front access connections for easy installation significantly reduce the footprint, installation and maintenance time while increasing safety. Automatic restart and recharge upon restoration of utility.

Applications
Emerg-Power Systems can be used in almost every type of building, and are well-suited for architecturally sensitive applications or areas where maintenance costs and individual testing of unit equipment becomes significant. Emerg-Power Systems are designed to work with power factor corrected as well as the most recent T5 and T5-HO electronic ballasts.

Options
The full range of options available, such as integrated output circuit breakers, bypass relays, dry contacts, etc., makes Emerg-Power Systems an industry leader in emergency lighting central systems.

Approvals
UL listed to UL 924. Meets UL 924 Listed, NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI.
New York City approved.
Features

Self-diagnostic / self-testing
- Programmable monthly and annual self-testing. Proven self-diagnostic with over 120 parameters stored in separate memory logs for Test, Event and Alarm.
- Microprocessor monitoring and control.

Low heat dissipation
- Very low heat loss technology in normal operating mode (see specifications for exact values). Convection cooling in normal mode with forced air during emergency mode.
- Battery cabinets: convection cooling only

Maximum efficiency
- Highest efficiency in the industry, 98% at 100% load with no requirement for cooling in normal operating mode.
- Low input harmonic distortion <10%

Versatile installation
- Modular design, easy front access freestanding cabinets, fasten together when more than one cabinet is required.
- Optional seismic kit available.
- All wiring provided is pre-cut and terminated, along with the necessary hardware and electrical fittings, for proper installation.

Complete protection
- Input circuit breaker and fused battery circuit are standard.
- Systems offer overload capacity, short-circuit protection, current-limiting, low-battery disconnect, reverse polarity and brownout protection as standard.

Thermal performance
- Bonded fin heat sink technology for maximum thermal performance.
- Cooling fans are energized only in inverter mode.

Monitoring and control
- User-friendly programmable interface with LED indicators and LCD display provides full metering values, easy program and control functions and a wide range of visual and audible alarms.

Benefits

Compliance with NFPA101
- Self-testing meets the requirements of NFPA and UL. User programmable time of testing.
- Test results, events and alarms can be downloaded from history logs. Load monitoring. Reduced testing/service time.

Less air-conditioning
- Reduced costs for air-conditioning required to ensure the optimum operating temperature when compared with equivalent systems that dissipate much more heat.
- Higher reliability of fans and the electronic components.

Lower energy bills
- Low consumption of the system itself will result in lower energy bills paid over the system life time. Comparative analysis available on request.

Easy to install
- Quick installation and connection through flexible cable entries and fast access terminal blocks.
- Reduced footprint for systems with stackable cabinets.
- Low MTTR (<15 min.) due to modular design, quick disconnect means and frontal access.

Reduced damage risks
- Full system protection eliminates damage created by external events and increases the lifetime of the electronics and batteries. Also will provide safety during maintenance.

Increase MTBF
- Increased reliability and reduced preventative maintenance.
- No air filters needed.

Easy maintenance
- Easier diagnostic, troubleshooting, preventative maintenance and service through the indicators and display or by using the history logs.
- Remote versions available.
Emerg-Power Systems Compact Series
Uninterruptible emergency lighting, 1PH, inverter system 500VA – 2000VA

Features
- 98% efficient at full load
- PWM/MOSFET technology
- Self-testing/self-diagnostic
- User programmable with password protection
- Standard input circuit breaker
- Standard output circuit breaker
- Micro-processor controlled
- Floor or wall mountable
- Field upgradeable (500VA steps)
- 90 min. standard run time
- Electronic and magnetic ballast compatible
- Automatic event, test and alarm log
- LCD display
- Small footprint (stackable cabinets)
- Maintenance-free standard batteries
- Forced air cooling during emergency mode only

UL listed to UL 924. Meets NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI. N.Y City approved.

Electrical/mechanical characteristics⁴ (data provided for standard lead calcium batteries)³

<table>
<thead>
<tr>
<th>Power rating¹ VA= W</th>
<th>Effic. at full load %</th>
<th>Max. Input current (A)</th>
<th>Heat loss in normal mode (BTU/HR)</th>
<th>Batt. VDC</th>
<th>Batt. A</th>
<th>No. of Batt.</th>
<th>UPS cabinet dimensions W'' H'' D''</th>
<th>Battery cabinet dimensions W'' H'' D''</th>
<th>No. of batt. cab.</th>
<th>Batt. cab. weight lbs</th>
<th>UPS cab. weight lbs</th>
<th>Batt. weight lbs</th>
<th>Total system weight lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>98</td>
<td>5.2</td>
<td>2.3</td>
<td>48</td>
<td>13.5</td>
<td>4</td>
<td>26 10 10 10 10 10 1</td>
<td>1 22 lbs 77 lbs 107 lbs 206 lbs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>98</td>
<td>10.5</td>
<td>4.5</td>
<td>68</td>
<td>26.5</td>
<td>8</td>
<td>26 10 10 10 10 10 2</td>
<td>2 22 lbs 77 lbs 214 lbs 335 lbs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1500</td>
<td>98</td>
<td>15.6</td>
<td>6.8</td>
<td>102</td>
<td>40</td>
<td>12</td>
<td>26 10 10 10 10 10 3</td>
<td>3 22 lbs 77 lbs 321 lbs 464 lbs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>98</td>
<td>20.8</td>
<td>9</td>
<td>136</td>
<td>52</td>
<td>16</td>
<td>26 10 10 10 10 10 4</td>
<td>4 22 lbs 77 lbs 428 lbs 592 lbs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹System capacity can be upgraded in the field up to 2000VA by adding more battery cabinets. Re-programming required by factory service technician.
²Batteries are installed in separate modular cabinets
³Battery cabinets are stackable. Must be installed under the electronics cabinet
⁴Special voltages can change the size, weight or number of cabinets

How to order

Input voltage¹ Battery type VA/W System type Output voltage² Run time³ Input breaker Output breakers⁴ Options⁵
<table>
<thead>
<tr>
<th>Input voltage¹</th>
<th>Battery type</th>
<th>VA/W</th>
<th>System type</th>
<th>Output voltage²</th>
<th>Run time³</th>
<th>Input breaker</th>
<th>Output breakers⁴</th>
<th>Options⁵</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>SG= Lead-calcium</td>
<td>500</td>
<td>-FTCM</td>
<td>-120</td>
<td>-90</td>
<td>-ICB</td>
<td>-OCBxxxx= No trip alarm⁴</td>
<td>-OFF= Normally OFF output</td>
</tr>
<tr>
<td>277</td>
<td></td>
<td>1000</td>
<td></td>
<td>-277</td>
<td></td>
<td></td>
<td>-OCAxxxx= With trip alarm⁴</td>
<td>-WB= Wall mount bracket</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-DSC= Dry summary alarm contacts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-INVON= Inverter on dry contact</td>
</tr>
</tbody>
</table>

Example: 120SG1500-FTCM-120-90-ICB-OCB0420-WB

¹Special voltages may change the size, weight or number of cabinets
²Special voltages may change the size, weight or number of cabinets
³Other run times available
⁴Max. 3 more additional output breakers for a total of 4. See page 169 for output breaker details
⁵See page 169 for options description
Specifications

General

Design
• Stand-by no break. PWM inverter type utilizing MOSFET technology with 2ms transfer time

Control
• Microprocessor controlled, 2 x 20-character display with touch pad controls & functions
• 5 LED indicators & alarm with ring-back feature

Metering
• Input and output voltage, battery voltage, battery and output current, output VA, temperature, inverter wattage

Communications Optional RS-232 port (DB9)

Electrical input

Voltage
120 or 277VAC, 1-phase 2-wire, +10%/ -15%
Contact factory for all other voltage.

Input power walk-in
Limiting inrush current to less than 125%, 10 times for 1 line cycle

Input frequency 60Hz, +/-3Hz

Protection Standard input circuit breaker

Harmonic distortion <10%

Power factor 0.5 lag/lead

Electrical output

Voltage 120 or 277VAC, 1-phase 2-wire
Contact factory for all other voltage

Static voltage
• Load current change +/-2%, battery discharge +/-12.5%

Dynamic voltage
• +/-2% for +/-25% load step change, +/-3% for a 50% load step change, recovery within 3 cycles

Harmonic distortion <3% THD for linear load

Output frequency 60Hz +/- 0.05Hz during emergency mode

Load power factor 0.5 lag to 0.5 lead

Inverter overload 115% for 5 minutes

Protection Standard output circuit breaker (normally on)

Crest factor 2.8

Environmental conditions

Storage/transport
• -4ºF to 158ºF (-20ºC to 70ºC) without batteries
• 0ºF to 104ºF (-18ºC to 40ºC) with batteries (max. 3 months at 104º F (40º C)

Operating temperature
System operates safely from 32ºF to 104ºF (0ºC to 40ºC) but optimum operation is between 68º F and 86ºF (20ºC to 30ºC). Battery performance can be affected by temperature

Altitude <10,000 feet (above sea level) without de-rating

Relative humidity 0 to 95% non-condensing

Audible noise 45 dBA @ 1m from surface in emergency mode

Cabinets

Modular design, freestanding or wall mount NEMA Type 1 steel cabinets powder coated for corrosion and scratch resistance. Front access design. Cabinets are stackable. Top and left side conduit entry with knockouts.

Inverter

Using MOSFET/PWM technology the inverter converts the DC voltage supplied by the batteries to AC voltage of a precise stabilized amplitude and frequency, suitable for most sophisticated electrical equipment. True sinusoidal output waveform with very low distortion (less than 3% for linear loads). Overload capability of up to 150% for 12 line cycles.

Battery

System is provided with 10 year, maintenance free, sealed valve regulated lead calcium batteries. 90 min. standard discharge time at full load under normal operating temperature. Low voltage disconnect protection included. No special ventilation required.

Self-diagnostic

Automatic self-test consists of a 5-minute monthly and 90-minute annual function. The front-mounted control panel includes 5 LED indicators, a 2-line 20-character LCD display, a keypad to control and monitor the internal operation of the system. This allows the operator to easily “watch” system functions as they occur and check on virtually any aspect of the system’s operation.

Self-diagnostic function monitors, controls, generates alarms and memorizes events.

Alarms

High/low battery charger voltage, high/low AC input voltage, near low battery, low battery, load reduction fault, output overload, high ambient temperature, inverter fault, output fault, optional output circuit breaker trip

Optional features

Normally off output, output circuit breakers, output trip alarm, RS232 communication port, 12 Hours fast recharge, remote meter panel, remote summary alarm panel, summary alarm dry form C contact, inverter on dry contacts, variable time delay, modem, bypass relays, wall mount bracket

Factory start-up

Includes one additional year of warranty. See warranty conditions

Warranty (full limited warranty conditions available upon request)

Limited manufacturer warranty is one-year, parts and labor, for system electronics or two-year with factory start-up program. Battery warranty is one year full plus 9 years pro-rata for a total of 10 years, under normal operating conditions. System must be put in service within 180 days from ship date in order to validate warranty.

Single line diagram

- - - - - - - -
Characteristics, specifications or dimensions subject to change without notice.
Emerg-Power Systems IPS

Single phase series

Features
- 98% efficient at full load
- PWM/IGBT technology
- Self-testing/Self-diagnostic
- User programmable with password protection
- Standard input circuit breaker
- Standard normally off and on output
- RS232 communication port
- Micro-processor controlled
- Automatic event and alarm log
- 90 min. standard run time
- Generator compatibility

- Electronic and magnetic ballast compatible
- Custom voltages available
- Automatic event, test and alarm log
- LCD display
- Reduced footprint (stackable cabinets)
- Maintenance free standard batteries
- Forced air cooling during emergency mode only

UL listed to UL 924. Meets NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI. N.Y City approved.

Electrical/mechanical characteristics
(data provided for standard lead calcium batteries)

**Power rating**¹

<table>
<thead>
<tr>
<th>Power rating²</th>
<th>Effic. at full load</th>
<th>Max. input current (A)</th>
<th>Heat loss in normal mode (BTU/HR)</th>
<th>Batt. VDC</th>
<th>Batt. A</th>
<th>No. of Batt.</th>
<th>UPS cabinet dimensions</th>
<th>Battery cabinet dimensions</th>
<th>Batt. cab. weight lbs</th>
<th>UPS cab. weight lbs</th>
<th>Batt weight lbs</th>
<th>Total system weight lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>98</td>
<td>16 7 102</td>
<td>48 39 4 30 47 25 N/A N/A N/A N/A</td>
<td>250 lbs</td>
<td>296 lbs</td>
<td>546 lbs</td>
<td>250 lbs</td>
<td>296 lbs</td>
<td>546 lbs</td>
<td>250 lbs</td>
<td>296 lbs</td>
<td>546 lbs</td>
</tr>
<tr>
<td>2.25</td>
<td>98</td>
<td>24 11 153</td>
<td>72 38 6 30 47 25 N/A N/A N/A N/A</td>
<td>265 lbs</td>
<td>444 lbs</td>
<td>709 lbs</td>
<td>265 lbs</td>
<td>444 lbs</td>
<td>709 lbs</td>
<td>265 lbs</td>
<td>444 lbs</td>
<td>709 lbs</td>
</tr>
<tr>
<td>3</td>
<td>98</td>
<td>32 14 204</td>
<td>96 38 8 30 47 25 N/A N/A N/A N/A</td>
<td>295 lbs</td>
<td>592 lbs</td>
<td>887 lbs</td>
<td>295 lbs</td>
<td>592 lbs</td>
<td>887 lbs</td>
<td>295 lbs</td>
<td>592 lbs</td>
<td>887 lbs</td>
</tr>
<tr>
<td>3.75</td>
<td>98</td>
<td>39 17 255</td>
<td>120 37 10 30 47 25 N/A N/A N/A N/A</td>
<td>305 lbs</td>
<td>740 lbs</td>
<td>1045 lbs</td>
<td>305 lbs</td>
<td>740 lbs</td>
<td>1045 lbs</td>
<td>305 lbs</td>
<td>740 lbs</td>
<td>1045 lbs</td>
</tr>
<tr>
<td>5</td>
<td>98</td>
<td>50 22 340</td>
<td>144 40 12 30 47 25 N/A N/A N/A N/A</td>
<td>315 lbs</td>
<td>888 lbs</td>
<td>1203 lbs</td>
<td>315 lbs</td>
<td>888 lbs</td>
<td>1203 lbs</td>
<td>315 lbs</td>
<td>888 lbs</td>
<td>1203 lbs</td>
</tr>
<tr>
<td>6</td>
<td>98</td>
<td>63 27 408</td>
<td>180 40 15 30 47 25 30 47 25 1 210 lbs</td>
<td>350 lbs</td>
<td>1110 lbs</td>
<td>1670 lbs</td>
<td>350 lbs</td>
<td>1110 lbs</td>
<td>1670 lbs</td>
<td>350 lbs</td>
<td>1110 lbs</td>
<td>1670 lbs</td>
</tr>
<tr>
<td>8</td>
<td>98</td>
<td>84 36 544</td>
<td>240 39 20 30 47 25 30 47 25 1 232 lbs</td>
<td>375 lbs</td>
<td>1480 lbs</td>
<td>2087 lbs</td>
<td>375 lbs</td>
<td>1480 lbs</td>
<td>2087 lbs</td>
<td>375 lbs</td>
<td>1480 lbs</td>
<td>2087 lbs</td>
</tr>
<tr>
<td>10</td>
<td>98</td>
<td>105 45 680</td>
<td>144 82 24 30 47 25 30 47 25 2 420 lbs</td>
<td>435 lbs</td>
<td>1776 lbs</td>
<td>2631 lbs</td>
<td>435 lbs</td>
<td>1776 lbs</td>
<td>2631 lbs</td>
<td>435 lbs</td>
<td>1776 lbs</td>
<td>2631 lbs</td>
</tr>
<tr>
<td>12.5</td>
<td>98</td>
<td>131 57 850</td>
<td>180 82 30 30 47 25 30 47 25 2 420 lbs</td>
<td>465 lbs</td>
<td>2220 lbs</td>
<td>3105 lbs</td>
<td>465 lbs</td>
<td>2220 lbs</td>
<td>3105 lbs</td>
<td>465 lbs</td>
<td>2220 lbs</td>
<td>3105 lbs</td>
</tr>
<tr>
<td>16.7</td>
<td>98</td>
<td>174 76 1136</td>
<td>240 80 40 30 47 25 30 47 25 2 464 lbs</td>
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<td>3954 lbs</td>
<td>530 lbs</td>
<td>2960 lbs</td>
<td>3954 lbs</td>
<td>530 lbs</td>
<td>2960 lbs</td>
<td>3954 lbs</td>
</tr>
</tbody>
</table>

¹System capacity can be upgraded in the field up to 2000VA by adding more battery cabinets. Re-programming required by factory service technician.
²Batteries are installed in separate modular cabinets
³Battery cabinets are stackable. Must be installed under the electronics cabinet
⁴Special voltages can change the size, weight or number of cabinets

—

How to order

**Input voltage¹** | **Battery type** | **VA/W rating** | **System type** | **Output voltage²** | **Run time³** | **Input breaker⁴** | **Output breakers⁵** | **Options⁶** | **Example**
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>120</td>
<td>SG= Sealed lead-calcium</td>
<td>1500</td>
<td>-IPS</td>
<td>-120</td>
<td>-90</td>
<td>-ICB</td>
<td>RS232</td>
<td>-OCBxxxx</td>
<td>-20Y= 20 yr sealed batteries</td>
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<tr>
<td>208</td>
<td></td>
<td>2250</td>
<td></td>
<td>-127</td>
<td></td>
<td></td>
<td></td>
<td>-12HR= 12 hr fast recharge</td>
<td></td>
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<tr>
<td>240</td>
<td></td>
<td>3000</td>
<td></td>
<td>-208</td>
<td></td>
<td></td>
<td></td>
<td>-MBYP= Internal bypass switch</td>
<td></td>
</tr>
<tr>
<td>277</td>
<td></td>
<td>3750</td>
<td></td>
<td>-120/140</td>
<td></td>
<td></td>
<td></td>
<td>-EMBP= External bypass switch</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5000</td>
<td></td>
<td>-120/277</td>
<td></td>
<td></td>
<td></td>
<td>-RMP= Remote metering panel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6000</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>-RSAP= Remote summary alarm panel</td>
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</tr>
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<td></td>
<td></td>
<td>8000</td>
<td></td>
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<td></td>
<td></td>
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<td>-DCS= Dry summary alarm contacts</td>
<td></td>
</tr>
<tr>
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<td></td>
<td>10000</td>
<td></td>
<td></td>
<td></td>
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<td>-INVON= Inverter on dry contacts</td>
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</tr>
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<td>12500</td>
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<td>-VTD= Variable time delay</td>
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<td>16700</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-MOD= External modem</td>
<td></td>
</tr>
</tbody>
</table>

¹Special voltages may change the size, weight or number of cabinets
²Special voltages may change the size, weight or number of cabinets
³Other run times available
⁴Max. 12 unsupervised single pole positions or 8 with trip alarm. For more output breakers please consult factory. See page 169 for output breaker details
⁵See page 169 for options description
⁶External bypass switch is not compatible with integrated output circuit breakers.
Input/output voltage has to be the same

Example: 277SG6000-IPS-277-90-ICB-RS232-OCB0420-DCS-20Y
Specifications

General

Design
• Stand-by. PWM inverter type utilizing IGBT technology with 50ms transfer time.

Control
• Microprocessor controlled, 2 x 20-character display with touch pad controls & functions
• 5 LED indicators & alarm with ring-back feature

Metering
• Input and output voltage, battery voltage, battery and output current, output VA, temperature, inverter wattage

Communications Optional RS-232 port (DB9)

Electrical input

Voltage
120 or 277VAC, 1-phase 2-wire, +10%/-15%
Contact factory for all other voltage.

Input power walk-in
Limiting inrush current to less than 125%, 10 times for 1 line cycle

Input frequency 60Hz, +/-3Hz, available upon request

Protection
Input circuit breaker

Harmonic distortion <10%

Power factor 0.5 lag/lead

Electrical output

Voltage 120 or 277VAC, 1-phase 2-wire
Contact factory for all other voltage

Static voltage
• Load current change +/-2%, battery discharge +/-12.5%
Dynamic voltage
• +/-2% for +/-25% load step change
• +/-3% for a 50% load step change, recovery within 3 cycles

Harmonic distortion <3% THD for linear load

Output frequency 60Hz +/-0.05Hz during emergency mode

Load power factor 0.5 lag to 0.5 lead

Inverter overload 115% for 10 minutes, 150% for 16 line cycles

Protection Optional distribution circuit breaker

Crest factor 2.8

Environmental conditions

Storage/transport
• -4ºF to 158ºF (-20ºC to 70ºC) without batteries
• 0ºF to 104ºF (-18ºC to 40ºC) with batteries
(max. 3 months at 104ºF (40ºC)

Operating temperature
System operates safely from 32ºF to 104ºF (0ºC to 40ºC) but optimum operation is between 68º F and 86ºF (20ºC to 30ºC). Battery performance can be affected by temperature

Altitude <10,000 feet (above sea level) without de-rating

Relative humidity 0 to 95% non-condensing

Audible noise Audible noise 45 dBA @ 1m from surface in emergency mode

Battery
System is provided standard with 10 year, maintenance free, sealed valve regulated, regulated Lead-Calcium batteries. 20 year sealed Lead-Calcium battery also available. 90 min. standard discharge time at full load under normal operating temperature. Low voltage disconnect protection included. No special ventilation required.

Self-diagnostics
Automatic self tests consist of a 5-minute monthly and 90-minute annual function. The front-mounted control panel includes 5 LED indicators, a 2-line 20-character LCD display, a keypad to control and monitor the internal operation of the system. This allows the operator to easily “watch” system functions as they occur and check on virtually any aspect of the system’s operation. Standard RS232 diagnostic interface

Alarms
High/low battery charger voltage, high/low AC Input Voltage. Near low battery, low battery, load reduction fault, output overload, high ambient temperature, inverter fault, output fault, optional output circuit breaker trip

Optional features
Output circuit breakers, output trip alarms, 20 years sealed batteries, 12 hours fast recharge, internal/external maintenance bypass switch, remote meter panel, remote summary alarm panel, summary alarm dry contact, inverter on dry contacts, fax modem, bypass relays, auto dialer, seismic mounting.

Factory start-up
Includes one additional year of warranty. See warranty conditions

Warranty (full limited warranty conditions available upon request)
Limited manufacturer warranty is one-year, parts and labor, for system electronics or two-year with factory start-up program. Battery warranty is one year full plus 9 years pro-rata for a total of 10 years, under normal operating conditions. System must be put in service within 6 months from ship date in order to validate warranty

FACTORY START-UP
2-Consult factory for other type batteries than the standard one.

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Single line diagram

- Input breaker
- Battery
- Automatic transfer module
- Output transformer
- DC to DC
- AC to DC
- Normally on output circuit
- Normally off output circuit

Outbreakers are optional
**Emerg-Power Systems FTC Single Phase Series**

Uninterruptible emergency lighting inverter system 1.5KVA – 16.7KVA

**Features**
- 98% efficient at full load
- PWM/IGBT technology
- Self-testing/Self-diagnostic
- User programmable with password protection
- Standard input circuit breaker
- Standard normally off and on output
- RS232 communication port
- Micro-processor controlled
- Automatic event and alarm log
- 90 min. standard run time
- Generator compatibility
- Reduced footprint (stackable cabinets)
- Maintenance free standard batteries
- Forced air cooling during emergency mode only
- UL listed to UL 924. Meets NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI.
- N.Y City approved.

**Electrical/mechanical characteristics** (data provided for standard lead calcium batteries)

<table>
<thead>
<tr>
<th>Power rating¹</th>
<th>Eff. at full load %</th>
<th>120V W</th>
<th>277V W</th>
<th>Heat loss in normal mode (BTU/HR)</th>
<th>Batt. VDC</th>
<th>Batt. A</th>
<th>No. of Batt.</th>
<th>UPS cabinet dimensions</th>
<th>Battery cabinet dimensions¹</th>
<th>No. of batt. cab.</th>
<th>Batt. cab. weight lbs</th>
<th>UPS cab. weight lbs</th>
<th>Total system weight lbs</th>
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<td>7</td>
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<td>48</td>
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<td>4</td>
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<td>47</td>
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<td>N/A</td>
<td>N/A</td>
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<td>11</td>
<td>153</td>
<td>72</td>
<td>36</td>
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<td>47</td>
<td>25</td>
<td>2</td>
<td>464</td>
<td>530</td>
</tr>
</tbody>
</table>

¹System capacity can be upgraded in the field up to 2000VA by adding more battery cabinets. Re-programming required by factory service technician.
²Battery cabinets are stackable. Must be installed under the electronics cabinet.
³Batteries are installed in separate modular cabinets.
⁴Batteries may change the size, weight or number of cabinets.

---

### How to order

**Input voltage¹**
- 120 SG = Sealed Lead-Calcium
- 208 GB = Galvanized Lead-Calcium
- 277 GS = Galvanized Sealed Lead-Calcium

**VA/W rating**
- 1500
- 2250
- 3750
- 5000
- 6000
- 8000
- 10000
- 12500
- 16700

**System type**
- FTC
- FTC-120
- FTC-277

**Output voltage²**
- No trip alarm
- MBYP = Internal bypass switch
- EMBP = External bypass switch
- RSAP = Remote Summary alarm panel
- EMBP = External bypass switch
- DCB = Dry summary alarm contacts

**Run time³**
- 90
- 140
- 277

**Input breaker**
- ICB

**RS232 Port**
- RS232

**Output breakers⁴**
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm
- -OCBxxxx = No trip alarm

**Options⁵**
- -INVON = Inverter on dry contacts
- -NOFF = Normally OFF output
- -MOD = External modem
- -FAX = Fax modem
- -BPR = Bypass relays
- -SEIS = Seismic mounting
- -ZONE = Zone monitoring
- -BATM = Battery cycle

---

Example: 277SG6000-FTC-277-90-ICB-RS232-OCB0420-DCS-20Y

---

¹Special voltages may change the size, weight or number of cabinets.
²Special voltages may change the size, weight or number of cabinets.
³Other run times available.
⁴Max. 12 unsupervised single pole positions or 8 with trip alarm. For more output breakers please consult factory. See page 169 for output breaker details.
⁵See page 169 for options description.
⁶External bypass switch is not compatible with integrated output circuit breakers.
⁷Input/output voltage has to be the same.
⁸Normally off loads cannot exceed 20% of total KVA rating with any combination of H.I.D. loads.
**Specifications**

**General**

**Design**
- Stand-by. PWM inverter type utilizing IGBT technology with 2ms transfer time

**Control**
- Microprocessor controlled, 2 x 20-character display with touch pad controls & functions
- 5 LED indicators & alarm with ring-back feature

**Metering**
- Input and output voltage, battery voltage, battery and output current, output VA, temperature, inverter wattage

**Communications** RS-232 port (DB9)

**Electrical input**

**Voltage**
- 120 or 277VAC 1-phase 2-wire +10% -15%. Contact factory for all other voltages

**Input power walk-in**
- Limiting inrush current to less than 125%, 10 times for 1 line cycle

**Input frequency** 60Hz, +/-3%, 50Hz available upon request

**Protection** Input circuit breaker

**Harmonic distortion** <10%

**Power Factor** 0.5 lag/lead

**Electrical output**

**Voltage** 120 or 277VAC, 1-phase 2-wire
- Contact factory for all other voltages

**Static voltage**
- Load current change +/-2%, battery discharge +/-12.5%

**Dynamic voltage**
- +/-2% for +/-25% load step change
- +/-3% for a 50% load step change, recovery within 3 cycles

**Harmonic distortion** <3% THD for linear load

**Output frequency** 60Hz +/- 0.05Hz during emergency mode

**Load power factor** 0.5 lag to 0.5 lead

**Inverter overload** 115% for 10 minutes, 125% for 5 minutes, 150% for 12 cycles

**Protection** Optional distribution circuit breaker

**Crest factor** 2.8

**Environmental conditions**

**Storage/transport**
- -4°F to 158°F (-20°C to 70°C) without batteries
- 0°F to 104°F (-18°C to 40°C) with batteries (max. 3 months at 104°F (40°C)

**Operating temperature**
System operates safely from 32°F to 104°F (0°C to 40°C) but optimum operation is between 68°F and 86°F (20°C to 30°C). Battery performance can be affected by temperature.

**Altitude** <10,000 feet (above sea level) without de-rating

**Relative humidity** 0 to 95% non-condensing

**Audible noise** Audible noise 45 dBA @ 1m from surface in emergency mode

**Cabinets**
- Modular design, freestanding NEMA Type 1 steel cabinets powder coated for corrosion and scratch resistance. Front access design through hinged lockable doors requires only 39” front clearance and 12” top clearance. Cabinets are stackable if required to further reduce the footprint. Top and left side conduit entry with knockouts.

**Inverter**
- Using IGBT/PWM technology the inverter converts the DC voltage supplied by the batteries to AC voltage of a precise stabilized amplitude and frequency, suitable for most sophisticated electrical equipment. True sinusoidal output waveform with very low distortion (less than 3% for linear loads). Overload capability of up to 150% for 12 line cycles.

**Charger**
- Fully automatic, temperature compensated, microprocessor controlled charger recharges fully discharged batteries in maximum 24 hours at nominal AC input voltage. AC input current limiting and over-voltage protection included.

**Battery**
- System is provided standard with 10 year, maintenance free, sealed valve regulated, front terminals Lead Calcium batteries. 20 year sealed Lead Calcium battery also available. 90 min. standard discharge time at full load under normal operating temperature. Low Voltage Disconnect protection included. No special ventilation required.

**Self-diagnostics**
- Automatic self tests consist of a 5-minute monthly and 90-minute annual function. The front-mounted control panel includes 5 LED indicators, a 2-line 20-character LCD display, and a keypad to control and monitor the internal operation of the system. This control panel allows the operator to easily “watch” system functions as they occur and check on virtually any aspect of the system’s operation. Standard RS232 diagnostic interface.

**Alarms**
- High/low battery charger voltage, high/low AC input voltage, near low battery, low battery, load reduction fault, output overload, high ambient temperature, inverter fault, output fault, optional output circuit breaker trip

**Optional features**
- Output circuit breakers, output trip alarms, 20 years sealed batteries, 12 hours fast recharge, internal/external maintenance bypass switch, remote meter panel, remote summary alarm panel, summary alarm dry contact, inverter on dry contacts, normally off output, fax/modem, bypass relays, auto dialer, seismic mounting.

**Factory start-up**
- Includes one additional year of warranty. See warranty conditions

**Warranty** (full limited warranty conditions available upon request)
- Limited manufacturer warranty is one-year, parts and labor, for system electronics or two-year with factory start-up program. Battery warranty is one year full plus 9 years pro-rata for a total of 10 years, under normal operating conditions. System must be put in service within 6 months from ship date in order to validate warranty.
- 2-Consult factory for other type batteries than the standard one.

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**Single line diagram - Normally on Output circuit**

Outbreakers are optional
### Emerg-Power Systems 3FTC Three Phase Series

Uninterruptible emergency lighting inverter system 4.8KVA – 50KVA

#### Features
- 98% efficient at full load
- PWM/IGBT technology
- Self-testing/self-diagnostic
- User programmable with password protection
- Standard input circuit breaker
- Standard normally off and on output
- RS232 communication port
- Micro-processor controlled
- Automatic event and alarm log
- 90 min. standard run time
- Generator compatibility
- Available in Y or ∆ input configuration
- Automatic event, test and alarm log
- LCD display
- Reduced footprint
- Maintenance free standard batteries
- Forced air cooling during emergency mode only
- UL listed to UL 924. Meets NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI. N.Y City approved.

#### Electrical/mechanical characteristics

<table>
<thead>
<tr>
<th>Power rating</th>
<th>Eff. at full load</th>
<th>Max. input current (A)</th>
<th>Heat loss in normal mode (BTU/HR)</th>
<th>Batt. VDC</th>
<th>Batt. A</th>
<th>No. of Batt.</th>
<th>UPS cabinet dimensions</th>
<th>Battery cabinet dimensions</th>
<th>No. of batt. cab.</th>
<th>Batt. weight lbs</th>
<th>UPS cab. weight lbs</th>
<th>Batt weight lbs</th>
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<td>50</td>
<td>98</td>
<td>174</td>
<td>75</td>
<td>3400</td>
<td>240</td>
<td>60</td>
<td>30</td>
<td>47</td>
<td>31</td>
<td>2</td>
<td>464</td>
<td>1450</td>
<td>9120</td>
</tr>
</tbody>
</table>

1 Consult factory for 20 year type batteries.
2 Battery cabinets are stackable. Must be installed under the electronics cabinet.
3 Special voltages can change the size, weight or number of cabinets.

#### How to order

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>Battery type</th>
<th>VA/W</th>
<th>System type</th>
<th>Output voltage</th>
<th>Run time</th>
<th>Input breaker</th>
<th>RS232 Port</th>
<th>Output breakers</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>120/208</td>
<td>SG = Sealed lead calcium</td>
<td>4800</td>
<td>3FTC</td>
<td>120/208</td>
<td>-90</td>
<td>-ICB</td>
<td>RS232</td>
<td>-OCBxxx = No trip alarm</td>
<td></td>
</tr>
<tr>
<td>277/480</td>
<td></td>
<td>6000</td>
<td></td>
<td>277/480</td>
<td></td>
<td></td>
<td></td>
<td>-OCBxxx = With trip alarm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-MBP = Internal bypass switch</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-EMB = External bypass switch</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-RMP = Remote metering panel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16700</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-RSAP = Remote summary alarm panel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-DCS = Dry summary alarm contacts</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>33000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>50000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: 277/4805G6000-3FTC277/480-90-ICB-RS232

1 Special voltages may change the size, weight or number of cabinets
2 Special voltages may change the size, weight or number of cabinets
3 Other run times available
4 Max. 12 unsupervised single pole positions or 8 with trip alarm 3.7kVA systems.
5 24 unsupervised or 16 with trip alarm for systems 24kVA to 50kVA.
6 For more output breakers please consult factory.
7 See page 169 for output breaker details
8 See page 169 for options description
9 External bypass switch is not compatible with integrated output circuit breakers.
10 Input/output voltage has to be the same
11 Normally off loads cannot exceed 20% of total KVA rating with any combination of H.I.D. loads

UL listed to UL 924. Meets NFPA101, NFPA70, NFPA 110, OSHA, UBC, SBCCI. N.Y City approved.
Specifications

General

Design
• Stand-by. PWM inverter type utilizing IGBT technology with 2ms transfer time

Control
• Microprocessor controlled, 2 x 20-character display with touch pad controls & functions
• 5 LED indicators & alarm with ring-back feature

Metering
• Input and output voltage, battery voltage, battery and output current, output VA, temperature, inverter wattage

Communications RS-232 port (DB9)

Electrical input

Voltage
• 120/208 or 277/480 3 phase 4-wire +10% - 15%. Contact factory for all other voltages

Input power walk-in
• Limiting inrush current to less than 125%, 10 times for 1 line cycle

Input frequency 60Hz, +/-3%, 50Hz available upon request

Protection Input circuit breaker

Harmonic distortion <10%

Power factor 0.5 lag/lead

Electrical output

Voltage 120/208 or 277/480VAC, 3-phase 4-wire Contact factory for all other voltages

Static voltage
• Load current change +/-4%, battery discharge +/-4%

Dynamic voltage
• +/-3% for +/-25% load step change
• +/-6% load step change, recovery within 3 cycles

Harmonic distortion <3% THD for linear load

Output frequency 60Hz +/- 0.05Hz during emergency mode

Load power factor 0.5 lag to 0.5 lead

Inverter overload 115% for 5 minutes, 125% for 10 minutes, 280% for line cycles

Protection Optional Distribution Circuit Breaker

Crest factor 2.8

Environmental conditions

Storage/transport
• -4°F to 158°F (-20°C to 70°C) without batteries
• -0°F to 104°F (-18°C to 40°C) with batteries

Operating temperature
System operates safely from 32°F to 104°F (0°C to 40°C) but optimum operation is between 68°F and 86°F (20°C to 30°C). Battery performance can be affected by temperature

Altitude <10,000 feet (above sea level) without de-rating

Relative humidity 0 to 95% non-condensing

Audible noise 45 dBA @ 1m from surface in emergency mode

Cabinets
Modular design, freestanding NEMA type 1 steel cabinets powder coated for corrosion and scratch resistance. Front access design through hinged lockable doors requires only 39” front clearance and 12” top clearance. Cabinets are stackable up to 16.7kVA, if required to further reduce the footprint. Top and left side conduit entry with knockouts up to 16.7kVA. Left side only for 24kVA and up.

Inverter
Using IGBT/PWM technology the inverter converts the DC voltage supplied by the batteries to AC voltage of a precise stabilized amplitude and frequency, suitable for most sophisticated electrical equipment. True sinusoidal output waveform with very low distortion (less than 3% for linear loads). Overload capability of up to 150% for 12 line cycles

Charger
Fully automatic, temperature compensated, microprocessor controlled charger recharges fully discharged batteries in maximum 24 hours at nominal AC input voltage. AC input current limiting and over-voltage protection included.

Battery
System is provided standard with 10 year, maintenance free, sealed valve regulated, front terminals Lead Calcium batteries. 20 year sealed Lead Calcium battery also available. 90 min. standard discharge time at full load under normal operating temperature. Low Voltage Disconnect protection included. No special ventilation required.

Supervision
Automatic self tests consist of a 5-minute monthly and 90-minute annual function. The front-mounted control panel includes 5 LED indicators, a 2-line 20-character LCD display, a keypad to control and monitor the internal operation of the system. This allows the operator to easily "watch" system functions as they occur and check on virtually any aspect of the system's operation. Standard RS232 diagnostic interface.

Alarms
High/low battery charger voltage, high/low AC input voltage, near low battery, low battery, load reduction fault, output overload, high ambient temperature, inverter fault, output fault, optional output circuit breaker trip

Optional features
Output circuit breakers, output trip alarms, 20 years sealed batteries, 12 hours fast recharge, external maintenance bypass switch, remote meter panel, remote summary alarm panel, summary alarm dry form C contact, inverter on dry contacts, normally off output, fax/modem, bypass relays, auto dialer, seismic mounting.

Factory start-up
Includes one additional year of warranty. See warranty conditions

Warranty
Limited manufacturer warranty is one-year, parts and labor, for system electronics or two-year with factory start-up program. Battery warranty is one year full plus 9 years pro-rata for a total of 10 years, under normal operating conditions. System must be put in service within 6 months from ship date in order to validate warranty.

2-Consult factory for other type batteries than the standard one.

Single line diagram

Outbreakers are optional
Electrical/ Mechanical characteristics⁴—(data provided for standard Lead Calcium batteries)⁴

<table>
<thead>
<tr>
<th>Power rating¹</th>
<th>Effic. at full load %</th>
<th>Heat loss (BTU)</th>
<th>Batt. VDC</th>
<th>Batt. A</th>
<th>No. of Batt.</th>
<th>UPS cabinet dimensions</th>
<th>UPS cab. weight lbs</th>
<th>Batt. cab. weight lbs</th>
<th>Total system weight lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 (1PH)</td>
<td>98</td>
<td>255</td>
<td>120</td>
<td>37</td>
<td>10</td>
<td>W* H* D*</td>
<td>535 lbs</td>
<td>888 lbs</td>
<td>1633 lbs</td>
</tr>
<tr>
<td>4 (1PH)</td>
<td>98</td>
<td>340</td>
<td>144</td>
<td>40</td>
<td>12</td>
<td>48 76 30</td>
<td>535 lbs</td>
<td>1110 lbs</td>
<td>1855 lbs</td>
</tr>
<tr>
<td>5 (1PH)</td>
<td>98</td>
<td>408</td>
<td>180</td>
<td>40</td>
<td>15</td>
<td>48 76 30</td>
<td>535 lbs</td>
<td>1480 lbs</td>
<td>2247 lbs</td>
</tr>
<tr>
<td>6.5 (1PH)</td>
<td>98</td>
<td>544</td>
<td>240</td>
<td>39</td>
<td>20</td>
<td>48 76 30</td>
<td>639 lbs</td>
<td>1776 lbs</td>
<td>2835 lbs</td>
</tr>
<tr>
<td>8 (1PH)</td>
<td>98</td>
<td>680</td>
<td>144</td>
<td>82</td>
<td>24</td>
<td>48 76 30</td>
<td>639 lbs</td>
<td>2220 lbs</td>
<td>3279 lbs</td>
</tr>
<tr>
<td>4 (3PH)</td>
<td>98</td>
<td>326</td>
<td>144</td>
<td>39</td>
<td>12</td>
<td>48 76 30</td>
<td>639 lbs</td>
<td>2960 lbs</td>
<td>4063 lbs</td>
</tr>
<tr>
<td>5 (3PH)</td>
<td>98</td>
<td>408</td>
<td>180</td>
<td>39</td>
<td>15</td>
<td>48 76 30</td>
<td>1250 lbs</td>
<td>4440 lbs</td>
<td>6390 lbs</td>
</tr>
<tr>
<td>6.5 (3PH)</td>
<td>98</td>
<td>544</td>
<td>240</td>
<td>39</td>
<td>20</td>
<td>48 76 30</td>
<td>1250 lbs</td>
<td>6080 lbs</td>
<td>8630 lbs</td>
</tr>
<tr>
<td>8 (3PH)</td>
<td>98</td>
<td>680</td>
<td>144</td>
<td>81</td>
<td>24</td>
<td>48 76 30</td>
<td>1450 lbs</td>
<td>7400 lbs</td>
<td>10150 lbs</td>
</tr>
</tbody>
</table>

¹Factory installed floor mount brackets; add 2' 5" to each side (total 53")
²Standard batteries are 5 year life expectancy. Batteries are installed in the same cabinet with electronics
³UL rated for 90 min. run time for temperatures: 50ºF to 104ºF (10ºC to 40ºC) or -4ºF to 104ºF (-20ºC to 40ºC) with optional heater
⁴NEMA type 3R, freestanding, two-door powder coat cold rolled steel cabinet standard. Stainless steel enclosure is optional

How to order

Example: 120SG4000-FTC3R-120-90-ICB-RS232-MBYB-OCB4020-10Y

¹1PH are input voltages available for 1 phase systems. 3PH are input voltages available for 3 phase systems.
²Not available in 3 phase version
³1PH are input voltages available for 1 phase systems. 3PH are input voltages available for 3 phase systems.
⁴Other run times available
⁵Max. 14 unsupervised single pole positions or 8 with trip alarm. For more output breakers please consult factory. See page 169 for output breaker option details
⁶See page 169 for options description Summary alarm dry contacts and seismic brackets are standard.
⁷Normally off loads cannot exceed 20% of total KVA rating with any combination of H.I.D. loads
⁸Not available in 3 phase version.
**Emerg-Power Systems**

**Options details**

Integrated output circuit breakers:

<table>
<thead>
<tr>
<th>-OCB</th>
<th>Trip alarm</th>
<th>12</th>
<th>Number of circuit breakers</th>
<th>Combination of 1 pole, 2 pole and 3 pole breakers available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCB</td>
<td>- No breaker trip alarm</td>
<td>20</td>
<td>Breaker rating (Amps)</td>
<td>Various ratings available</td>
</tr>
<tr>
<td>OCA</td>
<td>- With breaker trip alarm</td>
<td></td>
<td>Number of poles</td>
<td>Blank - 1 pole -2P - 2 poles -3P - 3poles</td>
</tr>
<tr>
<td>OCB</td>
<td>- No breaker trip alarm</td>
<td></td>
<td>Breaker voltage</td>
<td>Blank - matches system output voltage</td>
</tr>
<tr>
<td>OCA</td>
<td>- With breaker trip alarm</td>
<td></td>
<td>Operation mode</td>
<td>Blank: Normally-on</td>
</tr>
<tr>
<td>OCA</td>
<td>- With breaker trip alarm</td>
<td></td>
<td>-NOFF: Normally-off</td>
<td></td>
</tr>
</tbody>
</table>

Distribution circuit breakers are for output load protection. Protection for the normally on and/or for the normally off loads. All circuit breakers are rated for 10,000 AIC. If ordered, an audible and visual alarm activates when an output distribution circuit breaker is open or has tripped.

(-20YR) 20 year old sealed lead calcium batteries
Maintenance free battery requires no addition of water over the life of the battery. The battery cells are housed in protective, modular steel trays. Life expectancy is designed for 20-years at 77°F (25°C).

(-12HR) 12 hour fast recharge
Battery charger upgrade option which decreases the time required to return a fully discharged battery to the fully charged state. The normal 24 hour recharge cycle is reduced to a 12 hour period.

(-MBYP) Internal maintenance bypass switch
Internally mounted device permits maintenance personnel to easily bypass the protected equipment directly to the AC utility power. The manual make/before/break switch isolates the system to perform routine maintenance or servicing without interruption of utility power to the connected load.

(-EMBP) External maintenance bypass switch
The external maintenance bypass switch is mounted in a 20”H x 16”W x 9”D NEMA 1 separate enclosure, used to completely isolate the inverter system from the connected load and AC utility input. This option allows the system to be safely powered down for maintenance or service. The option may not be used on systems with more than one single pole output circuit breaker which must be sized for the total system output current.

(-RMP) Remote meter panel
The panel allows monitoring of parameters and control from remote locations up to 150 feet away from the inverter system. Also, the remote panel provides a complete touch pad interface allowing the user to monitor, control and program the inverter system.

(-RSAP) Remote summary alarm panel
Wall mountable box provides visual and audible alarms with silent switch. The panel consists of LED indicators and built-in audible alarm and may be located up to 1,000 feet away from the inverter system.

(-DCS) Summary alarm dry contacts
Form C dry contacts for remote monitoring purposes. Rated at 5 amps max. (250VAC/30VDC), the contacts will change state when any of the following alarms: are tripped High/Low Battery Charger Voltage, High/Low AC Input Voltage, Near Low Battery Voltage, Low Battery Voltage, Load Reduction Fault, High Ambient Temperature, Inverter Fault, Output Fault, Output Overload or Optional circuit breaker.

(-INVON) Inverter on dry contacts
Form C dry contacts that will change state when the system transfers to battery operation.

(-VTD) Time delay, 15 minutes (for normally off circuits)
After a return of AC utility power, delays retransfer of the inverter for up to 15 min. and continues to supply emergency power to the normally off circuits.

(-NOFF) Normally off output
This output circuit is dedicated for the “emergency only” equipment. Emergency only equipment operates during power outages and when the system is on battery back up. This option leaves the normally off load circuits off during normal utility power conditions. A 1-pole circuit breaker is provided. For 3 phase systems, 3 pole normally off circuits are available as well.

(-MOD) External modem
External modem device is designed to boost the signal level of the RS-232 diagnostic interface to remote monitoring locations located more than 100 feet away from the system.

(-FAX) Internal fax modem
The internal fax modem enables the system to send a fax automatically to several pre-programmed numbers when one of the following conditions occurs: utility failure, output failure or any alarm. The Fax Modem option requires a user supplied dedicated phone line.

(-BPR) Bypass relays
Internal bypass relays will allow overriding circuits that can be switched on/off, so in case of a power failure the emergency circuits will be supplied from the inverter system whatever the position of the switching device. Please consult factory for more details.

(-SEIS) Seismic mounting kit
The seismic mounting kit option is designed to prevent system movement during seismic events. Heavy-duty brackets are provided to secure system cabinetry to floor surfaces. Meets Zone 4 requirements.

(-ZONEM) Zone monitoring
Allows voltage monitoring of different circuits than the standard AC utility input. When the voltage of one of these circuits drops, the inverter system will go into battery back-up operation mode. Number and voltage of the monitored circuits to be specified.

(-RS232) Diagnostic interface
A microprocessor-based data acquisition system designed to monitor all the system parameters remotely. Monitors alarm log, event log and automatic test log. User can command the system to perform a battery test and review all system parameters. Access is through a DB9 connector and transmits at 9600 baud.

(-BATM) Battery cycle warranty monitor
Device providing battery monitoring at string level or cell level. Please consult factory for more details.
Emerg-Power Systems
Control panel & display

**Meter function**
- AC voltage input
- AC voltage output
- AC current output
- Battery voltage
- Battery current
- VA output
- Inverter watts
- Ambient temperature
- System days (cumulative)
- Inverter minutes (cumulative)

**Program functions**
- Set date
- Set time
- Set monthly test date and time
- Set annual test date and time
- Set load fault reduction setting
- Set low battery alarm
- Set near low battery alarm
- Set low AC voltage alarm
- Set high AC alarm
- Set ambient temperature alarm

**Alarms**
- High battery charger voltage
- Low battery charger voltage
- High AC input voltage
- Low AC input voltage
- Near low battery voltage
- Low battery voltage
- Load reduction fault
- High ambient temperature
- Inverter fault
- Output fault
- Output overload

**Control functions**
- Test and event logs
  - (75 logs stored) logs record the following data: date, time, duration, output voltage, output current, ambient temperature and alarms present.
- Alarm logs (50 logs stored) logs record the following data: Date, Time and Alarm type
- Buzzer On/Off (toggle)
- 5 LED Indicators and alarms with ringback feature

**System testing**
Manual tests of system may be performed at any time using the control panel test key. Automatic self-diagnostic tests consist of a 5-minute monthly and 90-minute annual function (the user can program the date and time of day the test is to take place). The microprocessor automatically records the last 75 test events in its own separate test result log.
---

**Emerg-Power Systems**

Central systems request data

1) **Input voltage**
   - Single phase (2 wire + ground) 120VAC □ 208VAC □ 240VAC □ 277VAC □
   - Three phase (4 wire + ground, Y) 120/208VAC □ 277/480V □
   - Three phase (3 wire + ground, Δ) 208VAC □ 480VAC □

2) **Output voltage**
   - Single phase (2 wire + ground) 120VAC □ 208VAC □ 277VAC □
   - Single phase (3 wire + ground) 120/240V □ 120/277 □
   - Three phase (4 wire + ground, Y) 120/208VAC □ 277/480V □

3) **System capacity**
   - KVA rating:__________________ System series type__________
     - a) Please consider power consumption and maximum current of the complete lamp fixture not just the lamp wattage (ie: ballasts consumption)
     - b) Please consider loads power factor
     - c) Even if the systems can run with 100% load, it is recommended as standard practice to use a system with a capacity at least 10% over maximum connected load

4) **Type of loads**
   - Incandescent □
   - Fluorescent □
   - H.I.D (metal halide, high pressure sodium, etc.) □
   - □ Other ____________________________

5) **Mode of operation**
   - Normally ON (24/7) □
   - Normally OFF (emergency only) □
   - Switched loads ON/OFF □
     - a) Please consider internal bypass relays or external override relays for switched On/Off loads.
       Each switched output circuit will require a bypass relay. Maximum 20 A per circuit.

6) **Integrated output circuit breakers**
   - # of CB_____ Amps_____ Voltage_____ # of poles __ NON □ NOFF□ Trip alarm □
   - #of CB_____ Amps_____ Voltage_____ # of poles __ NON □ NOFF □ Trip alarm □

7) **Type of batteries (check availability for each type system)**
   - 10 yr sealed lead calcium □
   - 20 yr sealed lead calcium □
   - Wet nickel cadmium □

8) **Options (refer to available options for each type system)**
   - □ 12HR- 12 hr fast recharge □ NOFF – normally OFF output
   - □ MBYP- internal bypass switch □ MOD- external modem
   - □ EMBP- external bypass switch □ FAX- fax modem
   - □ RMP- remote metering panel □ BPR- bypass relays How many _____
   - □ RSAP- remote summary alarm panel □ SEIS- seismic mounting
   - □ DCS- dry summary alarm contacts □ ZONEM- zone monitoring
   - □ INVON- inverter on dry contacts □ VTD- Time delay, 15 minutes
   - □ RS232- diagnostic interface □ BATM – battery cycle warranty monitor
Accessories & general information

We provide everything you need for complete emergency lighting solutions, including wire guards, mounting plates, remote test switches and more. To specify alternate lamps, lamp data includes part numbers and catalog suffixes. National Electrical Code and Life Safety Code requirements related to emergency lighting are also provided for your reference.
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire guards</td>
<td>174</td>
</tr>
<tr>
<td>Accessories</td>
<td>176</td>
</tr>
<tr>
<td>Lamp Data</td>
<td>178</td>
</tr>
<tr>
<td>National Electrical Code</td>
<td>180</td>
</tr>
<tr>
<td>Life Safety Code</td>
<td>184</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>188</td>
</tr>
<tr>
<td>Product index</td>
<td>190</td>
</tr>
</tbody>
</table>
Wire guards

Catalog number WG1-E
Application
- JS Series (small cabinet)
- Premier™ Battery Unit
- Premier™ Exit Sign (wall mount)
- Prestige™ DX Series
- Preceptor™ Die-Cast Series
- Prestige™ Thin Die-Cast Series

Catalog number WG5-E
Application
- X10 (end or ceiling mounted)
  AC and AC/DC or self-powered exit with no mounted heads
- Preceptor™ Series LED (AC and AC/DC or self-powered) (end or ceiling mounted)
- Prestige™ DX Series LED and Thin Die-Cast Series (end or ceiling mount)
- Premier™ Exit Sign (end or ceiling mount)

Catalog number WG2-E
Application
- JS Series (large cabinet)
- All A cabinets
- Premier™ Combo Series (wall mount)

Catalog number WG6-E
Application
- X10 mini systems (wall mounted)
  with front mounted EF9 head(s) (wall mounted)

Catalog number WG3-E
Application
- All B and C cabinets

Catalog number WG7-E

Catalog number WG4-E
Application
- All D cabinets

Catalog number WG8-E
Application
- Single remote EF10
**Catalog number** WG9-E
**Application**
- Double or triple remote EF10, lighting heads

**Catalog number** WG10-E
**Application**
- JS Series with front mounted heads

**Catalog number** WG11-E
**Application**
- GS Series
- Fully recessed Preceptor™ Series
- Prestige™ Thin Die Cast Exit Sign (wall mounted)

**Catalog number** WG12-E
**Application**
- X10 Series LED (AC and AC/DC or Self-Powered) (wall mount)
- Preceptor™ Series LED (AC and AC/DC or Self-Powered) (wall mount)
- Prestige™ DX Series LED AC and AC/DC or Self-Powered (wall mount)

**Catalog number** WG13-E
**Application**
- PRO-2N Series
- Preceptor™ Series Self-Powered (wall mount)

**Catalog number** WG14-E
**Application**
**Exit signs (ceiling mount)**
- Prestige™ Floor Proximity Series (6" & 8”);
- Preceptor™ Die-Cast Series;
- Prestige™ Thin Die-Cast Series;
- X10 LED Series;
- Premier™ Exit Series;

**Catalog number** WG15-E
**Application**
**Exit signs (ceiling mount)**
- Prestige™ Floor Proximity Series (6" & 8”);
- Preceptor™ Die-Cast Series;
- Prestige™ Thin Die-Cast Series;
- X10 LED Series;
- Premier™ Exit Series;
Accessories

Catalog number VRS or VRS-4X
Application
• ME Series with top mounted heads
• PS Series all mountings
• X10 LED, (wall mounted) AC and AC/DC or self-powered exit with no mounted heads
• ECL Series LED (wall mounted) AC and AC/DC or self-powered
• Preceptor™ Series LED, (wall mounted) AC and AC/DC

Remote test switch
Make testing your ceiling mounted equipment easier with the remote test switch. Compatible with 120 or 277 VAC circuits, the remote test switch will interrupt the line voltage to your equipment by means of a momentary push button switch. AC on/Charge status indicator lamp assures that power is going to your emergency lighting.

How to order
Metal faceplate, chrome
RTS
Plastic Faceplate plastic, off white
RTS-1

B1 and B12 mounting brackets
Constructed of 16 gauge. steel, the B1 and B12 mounting bracket will accommodate our unit equipment in our ‘A’ and ‘B’ cabinets respectively.

How to order
Mounting bracket (off white) B1
Mounting bracket (off white) B2

Catalog number VRS-BB or VRSBB-4X
Application
• JS Series (small cabinet) top or front mounted heads
• ECC & ECM Series (small cabinet)

MP6, MP12, MP24 mounting platform
Constructed of 18 gauge. steel, the MP6, MP12, and MP24 mounting platform will accommodate our unit equipment in our ‘C’, ‘D’, and ‘E’ cabinets respectively.

How to order
Mounting platform (off white) MP6-EG
Mounting platform (off white) MP12
Mounting platform (off white) MP24
Optional colors available, contact your sales representative

Dimensions (inches)

<table>
<thead>
<tr>
<th>Part #</th>
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<th>B</th>
<th>B</th>
<th>D</th>
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<td>B2</td>
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Dimensions (inches)

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230.1238-E & 230.1239-E

- Single, double or triple round
- Thermoplastic construction
- Off-white or black finish only
- Mount direct to 4" octagonal box

**Dimensions:**
5" diameter - slotted mounting holes
3 to 3-9/16" mounting center
**Standard:** EF18, EF18D, and EF9, EF9D

450.0129-E, 450.0397-E & 450.0398-E

- Single, double or triple rectangular
- Single, triple or 4-gang steel construction
- Chrome plated finish only
- Mount direct to standard outlet box

**Dimensions:**
Single - 2-3/4" X 4-1/2" (for 1 fixture)
3-gang - 6-7/16" X 4-1/2" (for 2 fixtures)
4-gang - 8-3/8" X 4-1/2" (for 3 fixtures)
**Standard:** EF28, EF28D; EF18T and EF28T

330.7583-E & 330.7584-E

- Single or double round
- Die-cast aluminum construction
- Gasketed weatherproof
- Off-white or black powder paint finish only
- Mount direct to 4" octagonal box

**Dimensions:**
4-1/8" diameter
3-9/16" mounting center
**Standard:** EF11 and EF11D

12804-E & 12805-E

- Single or double rectangular
- Die-cast aluminum construction
- Gasketed weatherproof
- Silver gray enamel finish only
- Mount direct to standard outlet box

**Dimensions:**
4-5/8" X 2-7/8" (for 1 fixture)
3-1/4" mounting center
**Standard:** Non standard mounting plate
Lamp Data

Emergency Lighting is required to provide illumination for a minimum of 90 minutes or an hour and a half during an emergency situation. Emergency Lighting lamps powered from a DC battery source must be powered by a battery that has the capacity to power all the lamps using that battery source for a minimum of 90 minutes. It is important to choose the correct lumen output lamp to meet the required illumination at the floor level on a path of egress. It is equally important to match the lamp and the battery voltages. If you do not have a battery that is the same voltage as the lamp and with enough wattage capacity to illuminate all the lamps, then the lamps will not provide adequate lumen output for 90 minutes to meet the required illumination at floor level along the path of egress.

First, match voltage. The voltage of the lamp must exactly match the voltage of the battery powering that lamp. If the voltage of the battery is lower than the voltage of the lamp, the lamp may not illuminate. If the voltage of the battery is higher than the voltage of the lamp, the lamp may “pop”.

Second, consider total wattage. The wattage of each individual lamp drawing from a battery during emergency operation, including the lamps mounted on the unit as well as all remote lamps wired to that unit, added together, CAN NOT EXCEED the total wattage capacity of that battery within 90 minutes of operation. A unit’s battery wattage capacities are shown in the Unit Rating Chart of each particular unit.

Available lamp types are shown on the Lamp Selection Chart on the catalog page for each head style or fixture type. Lamp Selection Chart information refers to a single lamp. If you are using a double or triple lamp type head or fixture, the wattage draw of that head or fixture will be the total number of lamps used. For example, if you are using a double lamp fixture with a 12W lamp, that fixture will have a 24W draw (two lamps of 12W each, 12W + 12W = 24W total).

### MR16 LED Lamps

<table>
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<tr>
<th>Lamp type</th>
<th>Part number</th>
<th>Lamp suffix</th>
<th>Voltage</th>
<th>Watts</th>
<th>Average lumen</th>
<th>Total candle power (CP)</th>
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<th>Bulb type</th>
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### Explosion-proof incandescent lamps

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Emergency lighting is a vital and effective life safety tool, providing reassurance and guidance to people at critical times when they need to escape quickly and safely from a building.
National Electrical Code

ARTICLE 700 – EMERGENCY SYSTEMS

I. General

700.1. Scope
The provisions of this article apply to the electrical safety of the installation, operation, and maintenance of emergency systems consisting of circuits and equipment intended to supply, distribute, and control electricity for illumination or power, or both, to required facilities when the normal electrical supply or system is interrupted.

(FPN No. 1): For further information regarding wiring and installation of emergency systems in health care facilities, see Article 517.


(FPN No. 3): Emergency systems are generally installed in places of assembly where artificial illumination is required for safe exiting and for panic control in buildings subject to occupancy by large numbers of persons, such as hotels, theaters, sports arenas, health care facilities, and similar institutions. Emergency systems may also provide power for such functions as ventilation where essential to maintain life, fire detection and alarm systems, elevators, fire pumps, public safety communications systems, industrial processes where current interruption would produce serious life safety or health hazards, and similar functions.

(FPN No. 4): For specification of locations where emergency lighting is considered essential to life safety, see Life Safety Code, NFPA 101-2012.


700.2. Definitions

Emergency Systems. Those systems legally required and classed as emergency by municipal, state, federal or other codes, or by any governmental agency having jurisdiction. These systems are intended to automatically supply illumination, power or both, to designated areas and equipment in the event of failure of the normal supply or in the event of accident to elements of a system intended to supply, distribute, and control power and illumination essential for safety to human life.

Informational Note: Emergency systems are generally installed in places of assembly where artificial illumination is required for safe exiting and for panic control in buildings subject to occupancy by large numbers of persons, such as hotels, theatres, sports, arenas, health care facilities, and similar institutions. Emergency systems may also provide power for such functions as ventilation where essential to maintain life, fire detection and alarm systems, elevators, fire pumps, public safety communications systems, industrial processes where current interruption would produce serious life safety or health hazards, and similar functions.

Relay automatic Load Control. A device used to set normally mechanically held. Automatic transfer switches, rated 1000 VAC and below, shall be listed for emergency system use.

700.3. Tests and Maintenance

(A) Conduct or Witness Test. The authority having jurisdiction shall conduct or witness a test of the complete system upon installation and periodically afterward.

(B) Tested Periodically. Systems shall be tested periodically on a schedule acceptable to the authority having jurisdiction to ensure the systems are maintained in proper operating condition.

(C) Battery Systems Maintenance. Where battery systems or unit equipment are involved, including batteries used for starting, control, or ignition in auxiliary engines, the authority having jurisdiction shall require periodic maintenance.

(D) Written Record. A written record shall be kept of such tests and maintenance.

(E) Testing Under Load. Means for testing all emergency lighting and power systems during maximum anticipated load conditions shall be provided.

Informational Note: For information on testing and maintenance of emergency power supply systems (EPSSS), see NFPA 110-2013, Standard for Emergency and Standby Power Systems.

700.4. Capacity

(A) Capacity and Rating. An emergency system shall have adequate capacity and rating for all loads to be operated simultaneously. The emergency system equipment shall be suitable for the maximum available fault current at its terminals.

(B) Selective Load Pickup, Load Shedding, and Peak Load Shaving.

The alternate power source shall be permitted to supply emergency, legally required standby, and optional standby system loads where the source has adequate capacity or where automatic selective load pickup and load shedding is provided as needed to ensure adequate power to (1) the emergency circuits; (2) the legally required standby circuits; and (3) the optional standby circuits, in that order of priority. The alternate power source shall be permitted to be used for peak load shaving, provided the above conditions are met. Peak load shaving operation shall be permitted for satisfying the test requirement of Section 700.3(B), provided all other conditions of Section 700.3 are met. A portable or temporary alternate source shall be available whenever the emergency generator is out of service for major maintenance or repair.

700.5. Transfer Equipment

(A) General. Transfer equipment, including automatic transfer switches, shall be automatic and identified for emergency use and approved by the authority having jurisdiction. Transfer equipment shall be designed and installed to prevent the inadvertent interconnection of normal and emergency sources of supply in any operation of the transfer equipment. Transfer equipment and electric power production systems installed to permit operation in parallel with the normal source shall meet the requirements of article 705.

(B) Bypass Isolation Switches. Means shall be permitted to bypass and isolate the transfer equipment. Where bypass isolation switches are used, inadvertent parallel operation shall be avoided.

(C) Automatic transfer switches shall be electrically operated and mechanically held. Automatic transfer switches, rated 1000 VAC and below, shall be listed for emergency system use.

(D) Use. Transfer equipment shall supply only emergency loads.

700-6. Signals.

Audible and visual signal devices shall be provided, where practicable, for the following purposes described in 700.6(A) through (D).

(A) Derangement. To indicate derangement of the emergency source.

(B) Carrying Load. To indicate that the battery is carrying load.

(C) Not Functioning. To indicate that the battery charger is not functioning.

(D) Ground Fault. To indicate a ground fault in solidly grounded wye emergency systems of more than 150 volts to ground and circuit protective devices rated 1000 amperes or more. The sensor for the ground-fault signal devices shall be located at, or ahead of, the main system disconnecting means for the emergency source, and the maximum setting of the signal devices shall be for a ground-fault current of 1200 amperes. Instructions on the course of action to be taken in event of indicated ground fault shall be located at or near the sensor location.
Informational Note: For the definition of Occupancy Classification, see Section 6.1 of NFPA 101-2009, Life Safety Code

(C) Wiring Design and Location. Emergency wiring circuits shall be designed and located to minimize the hazards that might cause failure due to flooding, fire, icing, vandalism, and other adverse conditions.

(D) Fire Protection. Emergency systems shall meet the following additional requirements (D)(1) through (D)(3) in assembly occupancies for not less than 1000 persons or in buildings above 23 m (75 ft) in height.

Informational Note: For signals for generator sets, see NFPA 110-2013, Standard for Emergency and Standby Power Systems

700.7. Signs
(A) Emergency Sources. A sign shall be placed at the service entrance equipment indicating type and location of on-site emergency power sources. Exception: A sign shall not be required for individual unit equipment as specified in Section 700-12(F).

(B) Grounding. Where removal of a grounding or bonding connection in the normal power source equipment interrupts the grounding electrode conductor connection to the alternate power source(s) grounded conductor, a warning sign shall be installed at the normal power source equipment stating:

WARNING
SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED.

The warning sign(s) or label(s) shall comply with 110.21(B).

700.8 Emergency Sources
A listed SPD shall be installed in or on all emergency systems switchboards and panelboards.

II. Circuit Wiring

700-10. Wiring, Emergency System.
(A) Identification. All boxes and enclosures (including transfer switches, generators, and power panels) for emergency circuits shall be permanently marked so they will be readily identified as a component of an emergency circuit or system.

(B) Wiring. Wiring of two or more emergency circuits supplied from the same source shall be permitted in the same raceway, cable, box, or cabinet. Wiring from an emergency source distribution overcurrent protection to emergency loads shall be kept entirely independent of all other wiring and equipment, unless otherwise permitted in 700.10(B)(1) through (5):

(1) Wiring from the normal power source located in transfer equipment enclosures.

(2) Wiring supplied from two sources in exit or emergency luminaires.

(3) Wiring from two sources in a listed load control relay supplying exit or emergency luminaires, or in a common junction box, attached to exit or emergency luminaires.

(4) Wiring within a common junction box attached to unit equipment, containing only the branch circuit supplying the unit equipment and the emergency circuit supplied by the unit equipment.

(5) Wiring from an emergency source to supply emergency and other loads in accordance with 700.10(B)(5)(a), b, c, and d as follows:
   a. Separate vertical switchgear sections or separate vertical switchboard sections, with or without a common bus, or individual disconnects mounted in separate enclosures shall be used to separate emergency loads from all other loads.
   b. The common bus of separate sections of the switchgear, separate sections of the switchboard, or the individual enclosures shall be permitted to be supplied by single or multiple feeders without overcurrent protection at the source. Exception to (5)(b): Overcurrent protection shall be permitted at the source or for the equipment, provided the overcurrent protection complies with the requirements of 700.28.
   c. Legally required and optional standby circuits shall not originate from the same vertical switchboard section, panel board enclosure, or individual disconnect enclosure as emergency circuits.
   d. It shall be permissible to utilize single or multiple feeders to supply distribution equipment between an emergency source and the point where the combination of emergency, legally required, or optional loads are separated.

(2) Feeder-Circuit Equipment. Equipment for feeder circuits (including transfer switches, transformers, panel boards) shall be either located in spaces fully protected by approved automatic fire suppression systems (including sprinklers and carbon dioxide systems) or in spaces with a 2-hour fire resistance rating.

(3) Generator Control Wiring. Control conductors installed between the transfer equipment and the emergency generator shall be kept entirely independent of all other wiring and shall meet the conditions of 700.10(D)(1)

III. Sources of Power

700.12. General Requirements. Current supply shall be such that, in the event of failure of the normal supply to, or within, the building or group of buildings concerned, emergency lighting, emergency power, or both will be available within the time required for the application but not to exceed 10 seconds. The supply system for emergency purposes, in addition to the normal services to the building and meeting the general requirements of this section, shall be one or more of the types of systems described in 700.12(A) through (D) below. Unit equipment in accordance with Section 700.12(E) shall satisfy the applicable requirements of this article.

In selecting an emergency source of power, consideration shall be given to the occupancy and the type of service to be rendered, whether of minimum duration, as for evacuation of a theater, or longer duration, as for supplying emergency power and lighting due to an indefinite period of current failure from trouble either inside or outside the building. Equipment shall be designed and located to minimize the hazards that might cause complete failure due to flooding, fires, icing, and vandalism. Equipment for sources of power as described in Sections 700.12(A) through (E) where located within assembly occupancies for greater than 1000 persons or in buildings above 23 m (75 ft) in height with any of the following occupancy classes: assembly, educational, residential, detention and correctional, business, and mercantile, shall be installed either in spaces fully protected by approved automatic fire suppression systems (sprinklers, carbon dioxide systems, and so forth), or in spaces with a 1-hour fire rating.

National Electrical Code


(A) Storage Battery.
Storage batteries used as source of power for emergency systems shall be of suitable rating and capacity to supply and maintain the total load for a period of 1-1/2 hours minimum, without the voltage applied to the load falling below 87-1/2 percent of normal.

Batteries, whether of the acid or alkali type, shall be designed and constructed to meet the requirements of emergency service and shall be compatible with the charger for that particular installation.

For a sealed battery, the container shall not be required to be transparent. However, for the lead acid battery that requires water additions, transparent or translucent containers shall be furnished. Automotive-type batteries shall not be used.

An automatic battery charging means shall be provided.

(B) Generator Set.
(1) Prime Mover-Driven. For a generator set driven by a prime mover acceptable to the authority having jurisdiction and sized in accordance with Section 700-4. Means shall be provided for automatically starting the prime mover on failure of the normal service and for automatic transfer and operation of all required electrical circuits. A time-delay feature permitting a 15-minute setting shall be provided to avoid retransfer in case of short-time reestablishment of the normal source.

(2) Internal Combustion Engines as Prime Movers. Where internal combustion engines are used as the prime mover an on-site fuel supply shall be provided with an on-premise fuel supply sufficient for not less than 2 hours full-demand operation of the system. Where power is needed for the operation of the fuel transfer pumps to deliver fuel to a generator set dry tank, this pump shall be connected to the emergency power system.

(3) Dual Supplies. Prime movers shall not be solely dependent upon a public utility gas system for their fuel supply or municipal water supply for their cooling systems. Means shall be provided for automatically transferring from one fuel supply to another where dual fuel supplies are used.

Exception: Where acceptable to the authority having jurisdiction, the use of other than on-site fuels shall be permitted where there is a low probability of a simultaneous failure of both the off-site fuel delivery system and power from the outside electrical utility company.

(4) Where a storage battery is used for control or signal power, or as the means of starting the prime mover, it shall be suitable for the purpose and shall be equipped with an automatic charging means independent of the generator set. Where the battery charger is required for the operation of the generator set, it shall be connected to the emergency system. Where power is required for the operation of dampers used to ventilate the generator set, the dampers shall be connected to the emergency system.

(5) Auxiliary Power Supply. Generator sets that require more than 10 seconds to develop power shall be permitted as an auxiliary power supply energizes the emergency system until the generator can pick up the load.

(6) Outdoor Generator Sets. Where an outdoor housed generator set is equipped with a readily accessible disconnecting means in accordance with 445.18, and the disconnecting means is located within sight of the building or structure supplied, an additional disconnecting means shall not be required where ungrounded conductors serve or pass through the building or structure. Where the generator supply conductors terminate at a disconnecting means in or on a building or structure, the disconnecting means shall meet the requirements of 225.36.

(C) Uninterruptible Power Supplies. Uninterruptible power supplies used to provide power for emergency systems shall comply with the applicable provisions of Sections 700-12(A) and (B).

(D) Separate Service. Where acceptable to the authority having jurisdiction as suitable for use as an emergency source of power, an additional service shall be permitted. This service shall be in accordance with the applicable provisions of Article 230 and following additional requirements.

(1) Separate overhead service conductors, service drops, underground service conductors, or service laterals shall be installed

(2) The service conductors for the separate service shall be installed sufficiently remote electrically and physically from any other service conductors to minimize the possibility of simultaneous interruption of supply

(E) Fuel Cell System. Fuel Cell Systems used as a source of power for emergency systems shall be of suitable rating and capacity to supply and maintain the total load for not less than 2 hours of full demand operation.

Installation of a fuel cell system shall meet the requirements of Parts II through VIII of Article 692. Where a single fuel cell system serves as the normal supply for the building or group of buildings concerned, it shall not serve as the sole source of power for the emergency standby system.

(F) Unit Equipment.
(1) Components of Unit Equipment. Individual unit equipment for emergency illumination shall consist of the following:

(1) A rechargeable battery

(2) A battery charging means

(3) Provisions for one or more lamps mounted on the equipment, or shall be permitted to have terminals for remote lamps, or both

(4) A relaying device arranged to energize the lamps automatically upon failure of the supply to the unit equipment.

(2) Installation of Unit Equipment. Unit equipment shall be installed in accordance with 700.12(F)(2)(1) through (6).

(1) The batteries shall be of suitable rating and capacity to supply and maintain at not less than 87-1/2 percent of the nominal battery voltage for the total lamp load associated with the unit for a period of at least 1-1/2 hours, or the unit equipment shall supply and maintain not less than 60 percent of the initial emergency illumination for a period of at least 1-1/2 hours. Storage batteries, whether of the acid or alkali type, shall be designed and constructed to meet the requirements of emergency service.

(2) Unit equipment shall be permanently fixed in place (i.e., not portable) and shall have all wiring to each unit installed in accordance with the requirements of any of the wiring methods in Chapter 3. Flexible cord and plug connection shall be permitted, provided that the cord does not exceed 900 mm (3 ft) in length.

(3) The branch circuit feeding the unit equipment shall be the same branch circuit as that serving the normal lighting in the area and connected ahead of any local switches.

Exception: In a separate and uninterrupted area supplied by a minimum of three normal lighting circuits, a separate branch circuit for unit equipment shall be permitted if it
originate from the same panelboard as that of the normal lighting circuits and is provided with a lock-on feature.

4. The branch circuit that feeds unit equipment shall be clearly identified at the distribution panel.

5. Emergency luminaire's (illumination fixtures) that obtain power from a unit equipment and are not part of the unit equipment shall be wired to the unit equipment as required by Section 700-10 and by one of the wiring methods of Chapter 3.

6. Remote heads providing lighting for the exterior of an exit door shall be permitted to be supplied by the unit equipment serving the area immediately inside the exit door.

IV. Emergency System Circuits for Lighting and Power

700.15. Loads on Emergency Branch Circuits. No appliances and no lamps, other than those specified as required for emergency use, shall be supplied by emergency lighting circuits.

700.16. Emergency Illumination. Emergency illumination shall include all required means of egress lighting, illuminated exit signs, and all other lights specified as necessary to provide required illumination. Emergency lighting systems shall be designed and installed so that the failure of any individual lighting element, such as the burning out of a light bulb, cannot leave in total darkness any space that requires emergency illumination.

Where high-intensity discharge lighting such as high- and low-pressure sodium mercury vapor, and metal halide is used as the sole source of normal illumination, the emergency lighting system shall be required to operate until normal illumination has been restored. Where an emergency system is installed, emergency illumination shall be provided in the area of the disconnecting means required by 225.31 and 230.70, as applicable, where the disconnecting means are installed indoors.

Exception: Where alterative means that ensure the emergency lighting illumination level is maintained shall be permitted.

700.17. Branch Circuits for Emergency Lighting. Branch circuits that supply emergency lighting shall be installed to provide service from a source complying with Section 700-12 when the normal supply for lighting is interrupted. Such installations shall provide either one of the following:

1. An emergency lighting supply, independent of the normal lighting supply, with provisions for automatically transferring the emergency lights upon the event of failure of the normal lighting branch circuit

2. Two or more branch circuits supplied from separate and complete systems with independent power sources. One of the two power sources and systems shall be part of the emergency system and the other shall be permitted to be part of the normal power source and system. Each system shall provide sufficient power for emergency lighting purposes. Unless both systems are used for regular lighting purposes and are both kept lit, means shall be provided for automatically energizing either system upon failure of the other. Either or both systems shall be permitted to be a part of the general lighting of the protected occupancy if circuits supplying lights for emergency illumination arc installed in accordance with other sections of this article.

700.18. Circuits for Emergency Power. For branch circuits that supply equipment classed as emergency, there shall be an emergency supply source to which the load will be transferred automatically upon the failure of the normal supply.

700.19. Multiwire Branch Circuits. The branch circuit serving emergency lighting and power circuits shall not be part of a multiwire branch circuit.

700.20. Switch Requirements. The switch or switches installed in emergency lighting circuits shall be arranged so that only authorized persons will have control of emergency lighting.

Exception No. 1: Where two or more single-throw switches are connected in parallel to control a single circuit, at least one of these switches shall be accessible only to authorized persons.

Exception No. 2: Additional switches that act only to put emergency lights into operation but not disconnect them shall be permissible. Switches connected in series or 3- and 4-way switches shall not be used.

700.21. Switch Location. All manual switches for controlling emergency circuits shall be in locations convenient to authorized persons responsible for their actuation. In facilities covered by Articles 518 and 520, a switch for controlling emergency lighting systems shall be located in the lobby or at a place conveniently accessible thereto. In no case shall a control switch for emergency lighting be placed in a motion-picture projection booth or on a stage or platform.

Exception: Where multiple switches are provided, one such switch shall be permitted in such locations where arranged so that it can energize the circuit only, but cannot deenergize the circuit.

700.22. Exterior Lights. Those lights on the exterior of a building that are not required for illumination when there is sufficient daylight shall be permitted to be controlled by an automatic light-actuated device.

700.23 Dimmer Systems. A dimmer or relay system containing more than one dimmer or relay and listed for use in emergency systems shall be permitted to be used as a control device for energizing emergency lighting circuits. Upon failure of normal power, the dimmer or relay system shall be permitted to selectively energize only those branch circuits required to provide minimum emergency illumination. All branch circuits supplied by the dimmer or relay system cabinet shall comply with the wiring methods of Article 700.

700.24 Automatic Load Control Relay. Where emergency illumination is provided by one or more directly controlled luminaires that respond to an external control input to bypass normal control upon loss of normal power, such luminaires and external bypass controls shall be individually listed for use in emergency systems.

700.25 Automatic Load Control Relay. If an emergency lighting load is automatically energized upon loss of the normal supply, a listed automatic load control relay shall be permitted to energize the load. The load control relay shall not be used as transfer equipment.

VI. Overcurrent Protection

700-26. Accessibility. The branch-circuit overcurrent devices in emergency circuits shall be accessible to authorized persons only.

700-27. Ground-Fault Protection of Equipment. The alternate source for emergency systems shall not be required to have ground-fault protection of equipment with automatic disconnecting means. Ground-fault indication of the emergency source shall be provided in accordance with 700.6(D) if ground-fault protection of equipment with automatic disconnecting means is not provided.

Exception: Selective coordination shall not be required between two overcurrent devices located in series if no loads are connected in parallel with the downstream device.

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7.8 Illumination of Means of Egress.

7.8.1 General.

7.8.1.1* Illumination of means of egress shall be provided in accordance with Section 7.8 for every building and structure where required in Chapters 11 through 43. For the purposes of this requirement, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of this requirement, exit discharge shall include only designated stairs, aisles, corridors, ramps, escalators, walkways, and exit passageways leading to a public way.

7.8.1.2 Illumination of means of egress shall be continuous during the time that the conditions of occupancy require that the means of egress be available for use, unless otherwise provided in 7.8.1.2.

7.8.1.2.1 Artificial lighting shall be employed at such locations and for such periods of time as are necessary to maintain the illumination to the minimum criteria values herein specified.

7.8.1.2.2 Unless prohibited by Chapters 11 through 43, automatic lighting control devices shall be permitted to temporarily turn off the illumination within the means of egress, provided that each lighting control device complies with all of the following:

1. In new installations, the lighting control device is listed.
2. The lighting control device is equipped to automatically energize the controlled lights upon loss of normal power and is evaluated for this purpose.
3. Illumination timers are provided and are set for a minimum 15-minute duration.
4. The lighting control device is activated by any occupant movement in the area served by the lighting units.
5. In new installations, the lighting control device is activated by activation of the building fire alarm system, if provided.
6. The lighting control device does not turn off any lights relied upon for activation of photoluminescent exit signs or path markers.
7. The lighting control device does not turn off any battery-equipped emergency luminaires, unit equipment, or exit signs.

7.8.1.2.3* Energy-saving sensors, switches, timers, or controllers shall be provided and shall not compromise the continuity of illumination of the means of egress required by 7.8.1.2.

7.8.1.3* The floors and other walking surfaces within an exit and within the portions of the exit access and exit discharge designated in 7.8.1.1 shall be illuminated as follows:

1. During conditions of stair use, the minimum illumination for new stairs shall be at least 10 ft-candle (108 lux), measured at the walking surfaces.
2. The minimum illumination for floors and other walking surfaces, other than new stairs during conditions of stair use, shall be at least 1 ft-candle (10.8 lux), measured at the floor.
3. In assembly occupancies, the illumination of the walking surfaces of exit access shall be at least 0.2 ft-candle (2.2 lux) during periods of performances or projections involving directed light.
4. The minimum illumination requirements shall not apply where operations or processes require low lighting levels.

7.8.1.4* Required illumination shall be arranged so that the failure of any single lighting unit does not result in an illumination level of less than 0.2 ft-candle (2.2 lux) in any designated area.

7.8.1.5 The equipment or units installed to meet the requirements of Section 7.10 also shall be permitted to serve the function of illumination of means of egress, provided that all requirements of Section 7.8 for such illumination are met.

7.8.2 Sources of Illumination.

7.8.2.1* Illumination of means of egress shall be from a source considered reliable by the authority having jurisdiction.

7.8.2.2 Battery-operated electric lights and other types of portable lamps or lanterns shall not be used for primary illumination of means of egress. Battery-operated electric lights shall be permitted to be used as an emergency source to the extent permitted under Section 7.9.

7.9 Emergency Lighting.

7.9.1 General.

7.9.1.1* Emergency lighting facilities for means of egress shall be provided in accordance with Section 7.9 for the following:

1. Buildings or structures where required in Chapters 11 through 43
2. Underground and limited access structures as addressed in Section 11.7
3. High-rise buildings as required by other sections of this Code
4. Doors equipped with delayed-egress locks
5. Stair shafts and vestibules of smokeproof enclosures, for which the following also apply:
   a. The stair shaft and vestibule shall be permitted to include a standby generator that is installed for the smokeproof enclosure mechanical ventilation equipment.
   b. The standby generator shall be permitted to be used for the stair shaft and vestibule emergency lighting power supply.
6. New access-controlled egress doors in accordance with 7.2.1.6.2.

7.9.1.2 For the purposes of 7.9.1.1, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of 7.9.1.1, exit discharge shall include only designated stairs, ramps, aisles, walkways, and escalators leading to a public way.

7.9.1.3 Where maintenance of illumination depends on changing from one energy source to another, a delay of not more than 10 seconds shall be permitted.

7.9.2 Performance of System.

7.9.2.1 Emergency illumination shall be provided for a minimum of 1-1/2 hours in the event of failure of normal lighting.

7.9.2.1.1 Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 ft-candle (10.8 lux) and, at any point, not less than 0.1 ft-candle (1.1 lux), measured along the path of egress at floor level.

7.9.2.1.2 Illumination levels shall be permitted to decline to not less than an average of 0.6 ft-candle (6.5 lux) and, at any point, not less than 0.06 ft-candle (0.65 lux) at the end of 1-1/2 hours.

7.9.2.1.3 The maximum-to-minimum illumination shall not exceed a ratio of 40 to 1.

7.9.2.2 New emergency power systems for emergency lighting shall be at least Type 10, Class 1.5, Level 1, in accordance with NFPA110, Standard for Emergency and Standby Power Systems.

7.9.2.3* The emergency lighting system shall be arranged to provide the required illumination automatically in the event of any interruption of normal lighting due to any of the following:

1. Failure of a public utility or other outside electrical power supply
2. Opening of a circuit breaker or fuse
3. Manual act(s), including accidental opening of a switch controlling normal lighting facilities
7.9.2.4 Emergency generators providing power to emergency lighting systems shall be installed, tested, and maintained in accordance with NFPA 110, Standard for Emergency and Standby Power Systems. Stored electrical energy systems, where required in this Code, other than battery systems for emergency luminaires in accordance with 7.9.2.5, shall be installed and tested in accordance with NFPA 111, Standard on Stored Electrical Energy Emergency and Standby Power Systems.

7.9.2.5 Unit equipment and battery systems for emergency luminaires shall be listed to ANSI/UL 924, Standard for Emergency Lighting and Power Equipment.

7.9.2.6* Existing battery-operated emergency lights shall use only reliable types of rechargeable batteries provided with suitable facilities for maintaining them in properly charged condition. Batteries used in such lights or units shall be approved for their intended use and shall comply with NFPA 70, National Electrical Code.

7.9.2.7 The emergency lighting system shall be either continuously in operation or shall be capable of repeated automatic operation without manual intervention.

7.9.3 Periodic Testing of Emergency Lighting Equipment.

7.9.3.1 Required emergency lighting systems shall be tested in accordance with one of the three options offered by 7.9.3.1.1, 7.9.3.1.2, or 7.9.3.1.3.

7.9.3.1.1 Testing of required emergency lighting systems shall be permitted to be conducted as follows:
(1) Functional testing shall be conducted monthly, with a minimum of 3 weeks and a maximum of 5 weeks between tests, for not less than 30 seconds. The emergency lighting equipment shall automatically perform a test with a duration of a minimum of 30 seconds and a diagnostic routine.
(2) The test shall be conducted annually for a minimum of 11/2 hours if the emergency lighting system is battery powered.
(3) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.1(1) and (3).
(4) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.2 Testing of required emergency lighting systems shall be permitted to be conducted as follows:
(1) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be provided.
(2) Not less than once every 30 days, self-testing/self-diagnostic battery-operated emergency lighting equipment shall automatically perform a test with a duration of a minimum of 30 seconds and a diagnostic routine.
(3) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be fully operational for the duration of the test.
(4) A visual inspection shall be performed at intervals not exceeding 30 days.
(5) Functional testing shall be conducted annually for a minimum of 1-1/2 hours.
(6) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be fully operational for the duration of the test.
(7) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.3 Testing of required emergency lighting systems shall be permitted to be conducted as follows:
(1) Computer-based, self-testing/self-diagnostic battery-operated emergency lighting equipment shall be provided.
(2) Not less than once every 30 days, emergency lighting equipment shall automatically perform a test with a duration of a minimum of 30 seconds and a diagnostic routine.
(3) The emergency lighting equipment shall automatically perform annually a test for a minimum of 11/2 hours.
(4) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.3(2) and (3).
(5) The computer-based system shall be capable of providing a report of the history of tests and failures at all times.

7.10 Marking of Means of Egress.
7.10.1 General.
7.10.1.1 Where Required. Means of egress shall be marked in accordance with Section 7.10 where required in Chapters 11 through 43.
7.10.1.2 Exits.
7.10.1.2.1* Exits, other than main exterior exit doors that obviously and clearly are identifiable as exits, shall be marked by an approved sign that is readily visible from any direction of exit access.

7.10.1.2.2* Horizontal components of the egress path within an exit enclosure shall be marked by approved exit or directional exit signs where the continuation of the egress path is not obvious.

7.10.1.3 Exit Door Tactile Signage. Tactile signage shall be provided to meet all of the following criteria, unless otherwise provided in 7.10.1.4:
(1) Tactile signage shall be located at each exit door requiring an exit sign.
(2) Tactile signage shall read as follows: EXIT.

7.10.1.4 Existing Exemption. The requirements of 7.10.1.3 shall not apply to existing buildings, provided that the occupancy classification does not change.

7.10.1.5 Exit Access.
7.10.1.5.1 Access to egress exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.
7.10.1.5.2* New sign placement shall be such that no point in an exit access corridor is in excess of 100 ft (30 m), whichever is less, from the nearest sign.
7.10.1.6* Floor Proximity Exit Signs. Where floor proximity exit signs are required in Chapters 11 through 43, such signs shall comply with 7.10.3, 7.10.4, 7.10.5, and 7.10.6 for externally illuminated signs and 7.10.7 for internally illuminated signs. Such signs shall be located near the floor level in addition to those signs required for doors or corridors. The bottom of the sign shall be not less than 6 in. (150 mm), but not more than 18 in. (455 mm), above the floor. For exit doors, the sign shall be mounted on the door or adjacent to the door, with the nearest edge of the sign within 4 in. (100 mm) of the door frame.

7.10.1.7* Floor Proximity Egress Path Marking. Where floor proximity egress path marking is required in Chapters 11 through 43, an approved floor proximity egress path marking system that is internally illuminated shall be installed within 18 in. (455 mm) of the floor. Floor proximity egress path marking systems shall be listed in accordance with ANSI/UL 944, Standard for Luminous Egress Path Marking Systems. The system shall provide a visible delineation of the path of travel along the designated exit access and shall be...
Life Safety Code

essentially continuous, except as interrupted by doorways, hallways, corridors, or other such architectural features. The system shall operate continuously or at any time the building fire alarm system is activated. The activation, duration, and continuity of operation of the system shall be in accordance with 7.9.2. The system shall be maintained in accordance with the product manufacturing listing.

7.10.1.8 Visibility. Every sign required in Section 7.10 shall be located and of such size, distinctive color, and design that it is readily visible and shall provide contrast with decorations, interior finish, or other signs. No decorations, furnishings, or equipment that impairs visibility of a sign shall be permitted. No brightly illuminated sign (for other than exit purposes), display, or object in or near the line of vision of the required exit sign that could detract attention from the exit sign shall be permitted.

7.10.1.9 Mounting Location. The bottom of new egress markings shall be located at a vertical distance of not more than 6 ft 8 in. (2030 mm) above the top edge of the egress opening intended for designation by that marking. Egress markings shall be located at a horizontal distance of not more than the required width of the egress opening, as measured from the edge of the egress opening intended for designation by that marking to the nearest edge of the marking.

7.10.2 Directional Signs.

7.10.2.1 A sign complying with 7.10.3, with a directional indicator showing the direction of travel, shall be placed in every location where the direction of travel to reach the nearest exit is not apparent.

7.10.2.2 Directional exit signs shall be provided within horizontal components of the egress path within exit enclosures as required by 7.10.1.2.2.

7.10.3 Sign Legend.

7.10.3.1 Signs required by 7.10.1 and 7.10.2 shall read as follows in plainly legible letters, or other appropriate wording shall be used: EXIT

7.10.3.2 Where approved by the authority having jurisdiction, pictograms in compliance with NFPA 170, Standard for Fire Safety and Emergency Symbols, shall be permitted.

7.10.4 Power Source. Where emergency lighting facilities are required by the applicable provisions of Chapters 11 through 43 for individual occupants, the signs, other than approved self-luminous signs and listed photoluminescent signs in accordance with 7.10.7.2, shall be illuminated by the emergency lighting facilities. The level of illumination of the signs shall be in accordance with 7.10.6.3 or 7.10.7 for the required emergency lighting duration as specified in 7.9.2.1. However, the level of illumination shall be permitted to decline to 60 percent at the end of the emergency lighting duration.

7.10.5 Illumination of Signs.

7.10.5.1 General. Every sign required by 7.10.1.2, 7.10.1.5, or 7.10.8.1, other than where operations or processes require low lighting levels, shall be suitably illuminated by a reliable light source. Externally and internally illuminated signs shall be legible in both the normal and emergency lighting mode.

7.10.5.2 Continuous Illumination.

7.10.5.2.1 Every sign required to be illuminated by 7.10.6.3, 7.10.7, and 7.10.8.1 shall be continuously illuminated as required under the provisions of Section 7.8, unless otherwise provided in 7.10.5.2.2.

7.10.5.2.2 Illumination for signs shall be permitted to flash on and off upon activation of the fire alarm system.

7.10.6 Externally Illuminated Signs.

7.10.6.1 Size of Signs.

7.10.6.1.1 Externally illuminated signs required by 7.10.1 and 7.10.2, other than approved existing signs, unless otherwise provided in 7.10.6.1.2, shall read EXIT or shall use other appropriate wording in plainly legible letters sized as follows:

(1) For new signs, the letters shall be not less than 6 in. (150 mm) high, with the principal strokes of letters not less than 3/4 in. (19 mm) wide.

(2) For existing signs, the required wording shall be permitted to be in plainly legible letters not less than 4 in. (100 mm) high.

(3) The word EXIT shall be in letters of a width not less than 2 in. (51 mm), except the letter I, and the minimum spacing between letters shall be not less than 3/8 in. (9.5 mm).

(4) Sign legend elements larger than the minimum established in 7.10.6.1.1(1) through (3) shall use letter widths, strokes, and spacing in proportion to their height.

7.10.6.1.2 The requirements of 7.10.6.1.1 shall not apply to marking required by 7.10.1.3 and 7.10.1.7.

7.10.6.2 Size and Location of Directional Indicator.

7.10.6.2.1 Directional indicators, unless otherwise provided in 7.10.6.2.2, shall comply with all of the following:

(1) The directional indicator shall be located outside of the EXIT legend, not less than 3/8 in. (9.5 mm) from any letter.

(2) The directional indicator shall be of a chevron type, as shown in Figure 7.10.6.2.1.

(3) The directional indicator shall be identifiable as a directional indicator at a distance of 40 ft (12 m).

(4) A directional indicator larger than the minimum established for compliance with 7.10.6.2.1(3) shall be proportionately increased in height, width, and stroke.

(5) The directional indicator shall be located at the end of the sign for the direction indicated.

7.10.6.2.2 Chevron Type Indicator.

7.10.6.2.2 The requirements of 7.10.6.2.1 shall not apply to approved existing signs.

7.10.6.3 Level of Illumination. Externally illuminated signs shall be illuminated by not less than 5 ft-candles (54 lux) at the illuminated surface and shall have a contrast ratio of not less than 0.5.

7.10.7 Internally Illuminated Signs.

7.10.7.1 Listing. Internally illuminated signs shall be listed in accordance with ANSI/UL 924, Standard for Emergency Lighting and Power Equipment, unless they meet one of the following criteria:

(1) They are approved existing signs.

(2) They are existing signs having the required wording in legible letters not less than 4 in. (100 mm) high.

(3) They are signs that are in accordance with 7.10.6.1.1(2).

(4) They are signs having the required wording in legible letters sized as follows:

(1) For new signs, the letters shall be not less than 6 in. (150 mm) high, with the principal strokes of letters not less than 3/4 in. (19 mm) wide.

(2) For existing signs, the required wording shall be permitted to be in plainly legible letters not less than 4 in. (100 mm) high.

(3) The word EXIT shall be in letters of a width not less than 2 in. (51 mm), except the letter I, and the minimum spacing between letters shall be not less than 3/8 in. (9.5 mm).

(4) Sign legend elements larger than the minimum established in 7.10.6.1.1(1) through (3) shall use letter widths, strokes, and spacing in proportion to their height.

7.10.7.2 Photoluminescent Signs. The face of a photoluminescent sign shall be continually illuminated while the building is occupied. The illumination levels on the face of the photoluminescent sign shall be in accordance with its listing. The charging illumination shall be a reliable light source, as determined by the authority having jurisdiction. The charging light source, shall be of a type specified in the product markings.
7.10.8 Special Signs.

7.10.8.1 Sign Illumination.

7.10.8.1.1 Where required by other provisions of this Code, special signs shall be illuminated in accordance with 7.10.5, 7.10.6.3, and 7.10.7.

7.10.8.1.2 Where emergency lighting facilities are required by the applicable provisions of Chapters 11 through 43, the required illumination of special signs shall additionally be provided under emergency lighting conditions.

7.10.8.2 Characters. Special signs, where required by other provisions of this Code, shall comply with the visual character requirements of ICC/ANSI A117.1, American National Standard for Accessible and Usable Buildings and Facilities.

7.10.8.3* No Exit.

7.10.8.3.1 Any door, passage, or stairway that is neither an exit nor a way of exit access and that is located or arranged so that it is likely to be mistaken for an exit shall be identified by a sign that reads as follows:

\[
\text{NO EXIT}
\]

7.10.8.3.2 The NO EXIT sign shall have the word NO in letters 2 in. (51 mm) high, with a stroke width of 3/8 in. (9.5 mm), and the word EXIT in letters 1 in. (25 mm) high, with the word EXIT below the word NO, unless such sign is an approved existing sign.

7.10.8.4 Elevator Signs. Elevators that are a part of a means of egress (see 7.2.13.1) shall have both of the following signs with a minimum letter height of 5/8 in. (16 mm) posted in every elevator lobby:

1. Signs that indicate that the elevator can be used for egress, including any restrictions on use
2. Signs that indicate the operational status of elevators

7.10.8.5* Evacuation Diagram. Where a posted floor evacuation diagram is required in Chapters 11 through 43, floor evacuation diagrams reflecting the actual floor arrangement and exit locations shall be posted and oriented in a location and manner acceptable to the authority having jurisdiction.

7.10.9 Testing and Maintenance.

7.10.9.1 Inspection. Exit signs shall be visually inspected for operation of the illumination sources at intervals not to exceed 30 days or shall be periodically monitored in accordance with 7.9.3.1.3.

7.10.9.2 Testing. Exit signs connected to, or provided with, a battery-operated emergency illumination source, where required in 7.10.4, shall be tested and maintained in accordance with 7.9.3.
Limited warranty

1.1 **EMERGI-LITE®** 6, 12 and 24 volt Emergency Lighting Unit Equipment (excluding lamps and fuses) and Exit Signs are fully warranted to be free of defects in material and workmanship under normal use for a period of three years from date of installation (see Paragraph 2.1).

(For MR16 LED light source, see Paragraph 3.3)

1.2 **EMERGI-LITE®** 6, 12 and 24 volt Emergency Lighting Unit Equipment (excluding lamps and fuses) and Exit Signs listed below are fully warranted to be free of defects in material and workmanship under normal use for a period of five years from date of installation (see Paragraph 2.1).

(For MR16 LED light source, see Paragraph 3.3)

<table>
<thead>
<tr>
<th>Spec Grade Architectural</th>
<th>Spec Grade Commercial</th>
<th>Spec Grade Industrial</th>
<th>Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lux-Ray™ LED Series</td>
<td>Premier™ Battery Series</td>
<td>Survive-All™ SVX Combo Series</td>
<td>Lux-Ray™ LED Series</td>
</tr>
<tr>
<td>Revelation™ Series</td>
<td>Premier™ Combo Series</td>
<td>Survive-All™ SVX Exit Series</td>
<td>Revelation™ Series</td>
</tr>
<tr>
<td>Mini-Revelation Series</td>
<td>Premier™ Exit Series</td>
<td>Survive-All™ SVH Series</td>
<td>Mini-Revelation Series</td>
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<tr>
<td>Prestige™ Series Edge-Lit</td>
<td>Preceptor™ Die-Cast Series</td>
<td>Survive-All™ SVXH Series</td>
<td>HP High Performance Series</td>
</tr>
<tr>
<td>Prestige™ Series X40</td>
<td>Preceptor™ Recessed Series</td>
<td>Survive-All SVXHZ Series</td>
<td>HPRL Remote Series</td>
</tr>
<tr>
<td>Prestige™ Floor Proximity Series</td>
<td>Premier Compact</td>
<td>HPH Battery Series</td>
<td></td>
</tr>
<tr>
<td>RS Battery Series</td>
<td>Economiser Edge-Lit</td>
<td>EXC Battery/ Combo Series</td>
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<tr>
<td>TS Battery Series</td>
<td></td>
<td>EFEP Remote Series</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EFXP Exit Series</td>
<td></td>
</tr>
</tbody>
</table>

1.3 **EMERGI-LITE®** 3.6 volt Emergency Lighting Unit Equipment (excluding lamps, and fuses) are fully warranted to be free of defects in material and workmanship under normal use for a period of three year from date of installation (see Paragraph 2.1).

1.4 **EMERGI-LITE®** 6, 12 and 24 volt Unit Equipment Batteries are warranted as follows

(Warrant below includes the full warranty on entire unit as called out in Paragraph 1.1–1.3.)

<table>
<thead>
<tr>
<th>Battery type</th>
<th>Life expectancy</th>
<th>Shelf life¹</th>
<th>Full warranty</th>
<th>Pro rata warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealed lead-calcium</td>
<td>8 years</td>
<td>6 months</td>
<td>3 years</td>
<td>3 years</td>
</tr>
<tr>
<td>High temperature lead-calcium</td>
<td>8 years</td>
<td>6 months</td>
<td>5 years</td>
<td>3 years</td>
</tr>
<tr>
<td>Sealed nickel-cadmium</td>
<td>10 years</td>
<td>1 year</td>
<td>5 years</td>
<td>5 years</td>
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<tr>
<td>Nickel-metal hydride</td>
<td>10 years</td>
<td>1 year</td>
<td>5 years</td>
<td>5 years</td>
</tr>
</tbody>
</table>

¹Maximum storage life. Must be recharged if not placed in service or battery warranty void.

2.1 The full warranty period begins on the date of installation or 90 days from date of shipment, whichever date is earlier.

2.2 Should a defect appear in the equipment or batteries listed in Paragraphs 1.1–1.4 above within the specified full warranty period, **EMERGI-LITE®** will repair or replace equipment without charge (see Paragraph 3.3). Such repair or replacement shall be the purchaser’s exclusive remedy.

2.3 The Pro Rota Warranty Period for batteries begins on the date the full warranty period ends.

2.4 A battery determined to be defective during the Pro Rota Warranty Period shall be repaired or replaced at a cost equal to the net price in effect at the time, reduced by the percentage obtained in multiplying 10% by the number of full years remaining in the total warranty period. Such repair or replacement at this adjusted price shall be the purchaser’s exclusive remedy.

3.3 All warranties are limited to the repair and/or replacement of parts or equipment, which, upon examination at our plant, are determined to be defective and in our judgement are subject to repair or replacement under warranty. Replacement of lamps and fuses is not included in the warranty except for MR16 LED lamps warranted to be free of defects in material and workmanship under normal use for a period of five (5) years when purchased and used with **EMERGI-LITE®** Battery Units, Combination Units or Remotes. The full warranty period begins on the date of installation or ninety (90) days from the date of shipment, whichever date is earlier.

3.4 If new replacement parts are shipped before defective goods are received for evaluation, the replacement parts will be invoiced at the net price in effect at that time. These charges will be credited if, upon receipt and evaluation of goods, a defect is determined. Only replacement parts will be shipped under these circumstances, if field replacement is possible. **EMERGI-LITE®** FACTORY ONLY RESERVES THE RIGHT TO SHIP NEW UNIT EQUIPMENT FOR REPLACEMENT PURPOSES. Units returned after installation cannot be restored to 100% saleable condition.

3.1 All warranties are subject to proper installation and maintenance in accordance with the instructions supplied.

3.2 Any material deemed defective must be returned, freight prepaid, to the factory for evaluation (see Paragraph 5.1–5.3). Any changes in circuitry or components by other than authorized **EMERGI-LITE®** personnel or its service companies will void the warranty.

3.4 In no event shall **EMERGI-LITE®** be liable for backcharges of any kind, including, without limitation, labor charges for field repair or late penalties.
5.1 No returned defective materials will be accepted without a Returned Goods Authorization issued in writing by an authorized EMERGI-LITE® employee.

5.2 Purchaser is responsible for secure packing of returned materials to provide best possible assurance against damage in shipment.

5.3 Defective batteries of any kind must not be returned to EMERGI-LITE® factory without strict adherence to special instructions for handling and shipping. WARNING Never ship a refillable wet battery in any type of emergency lighting equipment. Failure to adhere to this policy will void warranty.

5.4 Defective goods returned to the factory must be shipped prepaid. COLLECT RETURNED SHIPMENT WILL BE REFUSED. Freight charges to return repaired equipment or ship replacement equipment to the purchaser to be paid by EMERGI-LITE®. Factory will return repaired goods via same shipping method as received.

FAILURE TO COMPLY WITH ANY OF THE STIPULATIONS SET FORTH WILL VOID THE WARRANTY. ANY EXCEPTIONS TO THE FOREGOING WARRANTY MUST BE REQUESTED AND ACCEPTED IN WRITING PRIOR TO SHIPMENT. EMERGI-LITE® EQUIPMENT NOT LISTED IN PARAGRAPHS 1.1–1.4 IS WAR-RANTED AS DESCRIBED ON ITS INDIVIDUAL DATA SHEET WITH THE STIPULATIONS AS STATED IN PARAGRAPHS 2.1–5.4.
## Product Index

### Series | Page
---|---
12804-E | 177
12805-E | 177
12EXC2 | 97
12EXC4 | 97
12HP | 73
12HPH | 85
12JSC30 | 49
12JSC36 | 51
12JSC40 | 49
12JSC50 | 51
12JSM20 | 51
12JSM36 | 49, 51
12JSM54 | 51
12LC150 | 53
12LC175 | 53
12LC300 | 53
12LC350 | 53
12LC400 | 53
12LS536 | 55
12LS5C0 | 55
12LS5C72 | 55
12LSM110 | 55
12LSM162 | 55
12LSM220 | 55
12LSM36 | 55
12LSM54 | 55
12MPR12H | 39
12MPR12M | 39
12MPR20M | 39
12MPR24H | 39
12PR40M | 41
12PR40NC | 41
12PR72M | 41
12RSC36 | 23
12RSC50 | 23
12RSM56 | 23
12SV24M | 77
12SV24N | 77
12SV36M | 77
12SV40N | 77
12SV54M | 77
12SV60H | 77
12TSC36 | 25
12TSC50 | 25
12TSM110 | 25
12TSM36 | 25
12TSM54 | 25
230.1238-E | 177
230.1239-E | 177
245.0100-E | 177
24HP | 73
24HPH | 85
24LC300 | 53
24LC350 | 53
24LC400 | 53
24LSC100 | 55
24LSC72 | 55
24LSM110 | 55
24LSM220 | 55
24TSC100 | 25
24TSM110 | 25
330.7577-E | 177
330.7578-E | 177
330.7583-E | 177

---

### Series | Page
---|---
330.7584-E | 177
450.0129-E | 177
450.0194-E | 177
450.0397-E | 177
450.0398-E | 177
450.1153-E | 177
450.1155-E | 177
6EXC1 | 97
6EXC3 | 97
B1 | 176
B2 | 176
DLM-2 | 136
DX | 31, 33
DXN | 31, 33
EF10 | 111
EF12 | 112, 135
EF150 | 110
EF39 | 83, 115
EF39D | 83, 115
EF39P | 83, 115
EF39PD | 83, 115
EF40 | 115
EF40D | 115
EF40P | 115
EF40PD | 115
EF41 | 94, 117
EF41D | 94, 117
EF43 | 129
EF44 | 129
EF47 | 135
EFEP | 99
EFER8 | 109
EFER9 | 109
EFERWH | 109
EFXP | 101
EL | 123, 127, 131
EL-2QL | 131
EL-2QLR | 131
EL-2QLRAD | 131
EL-GRHR03 | 109
EL-GRHR04 | 109
EL-GRHR05 | 109
EL-GRHR06 | 109
ELX400 | 134
ELXN400 | 129, 133, 134
EMI | 153
EMI | 155, 157
EMIU | 155, 157
EPC-1-D | 145
EPC-1-E | 145
EPC-2-D | 146
EPC-2-E | 148
EPC-2-FM-D | 146
EPC-2-FM-E | 146
FPDL-13-42-N | 144
FPDL-28 | 143
FPDL32 | 143
FPDL-HL-N | 143
FPDL-U | 143
GS | 137
HPHRL | 87, 116
HPRL | 75, 113
JSC18 | 51
JSC25 | 51
JSM18 | 51

---

### Additional Information

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