ABB’s PowerValue 11 RT is a double-conversion online UPS that guarantees up to 10kVA of clean, reliable power for your critical single-phase applications. As well as maintaining power to your servers, point-of-sale terminals, workstation clusters, routers, switches, hubs and sensitive electronic equipment, the PowerValue 11 RT also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

The PowerValue 11 RT can be used as a standalone UPS device or installed into a standard 19” rack configuration, with connectivity options available for each. Three units of the 6 or 10kVA models can be configured in parallel to provide redundancy or to increase the systems total capacity up to 30 kW. All units can be fitted with up to four battery modules to extend runtime.

**High reliability**
- Reliable double conversion topology protects load from all input disturbances
- Batteries can be added or replaced easily
- Reduced recovery time from discharge
- Redundant parallel operation available (6 and 10kVA units)

**Low cost of ownership**
- Scalable runtime
- High operating efficiency, regardless of loading
- Reduced installation and upgrading costs
- Compact design

**Flexible design**
- Configurable in tower or rack-mount format
- Rotatable display
- UPS can be connected with up to four parallel battery modules for extended runtime
- Long backup models available
- Full set of accessories and connectivity options

**Efficient service concept**
- Manually operated maintenance bypass switch (optional)
- Easy set up and maintenance (plug and play)
- User-friendly display
- Hot swap user-replaceable batteries
PowerValue 11 RT
Product features

The advanced system architecture guarantees that the user is able to select a system to match their needs. Scalable runtime and the easy introduction of additional batteries make the solution sustainable.

In addition, three PowerValue 11 RT 6 or 10 kVA UPSs can be connected in parallel to increase total power or to add redundancy. The UPSs are delivered with an installed parallel board and paralleling cables. No additional hardware is required for a parallel installation.

Scalable battery runtime

<table>
<thead>
<tr>
<th>UPS</th>
<th>1kVA B</th>
<th>1kVA S</th>
<th>2kVA B</th>
<th>2kVA S</th>
<th>3kVA B</th>
<th>3kVA S</th>
<th>G2 6kVA</th>
<th>G2 10kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100%</td>
<td>50%</td>
<td>100%</td>
<td>50%</td>
<td>100%</td>
<td>50%</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>UPS</td>
<td>&lt;4</td>
<td>8</td>
<td>n.a.</td>
<td>n.a.</td>
<td>4</td>
<td>11</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>UPS + 1 EBM</td>
<td>16</td>
<td>40</td>
<td>6</td>
<td>22</td>
<td>12</td>
<td>29</td>
<td>&lt;5</td>
<td>11</td>
</tr>
<tr>
<td>UPS + 2 EBM</td>
<td>32</td>
<td>76</td>
<td>22</td>
<td>54</td>
<td>11</td>
<td>34</td>
<td>23</td>
<td>56</td>
</tr>
<tr>
<td>UPS + 3 EBM</td>
<td>52</td>
<td>119</td>
<td>40</td>
<td>112</td>
<td>32</td>
<td>78</td>
<td>22</td>
<td>62</td>
</tr>
<tr>
<td>UPS + 4 EBM</td>
<td>68</td>
<td>166</td>
<td>62</td>
<td>160</td>
<td>45</td>
<td>105</td>
<td>34</td>
<td>99</td>
</tr>
</tbody>
</table>

Battery runtime at full/half nominal load

<table>
<thead>
<tr>
<th>UPS</th>
<th>100%</th>
<th>50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS</td>
<td>30</td>
<td>24</td>
</tr>
<tr>
<td>UPS + 1 EBM</td>
<td>62</td>
<td>49</td>
</tr>
<tr>
<td>UPS + 2 EBM</td>
<td>119</td>
<td>92</td>
</tr>
<tr>
<td>UPS + 3 EBM</td>
<td>181</td>
<td>144</td>
</tr>
<tr>
<td>UPS + 4 EBM</td>
<td>245</td>
<td>196</td>
</tr>
</tbody>
</table>
**PowerValue 11 RT**

Available models

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AC input 10 A</td>
</tr>
<tr>
<td>2</td>
<td>Ground contact</td>
</tr>
<tr>
<td>3</td>
<td>USB port</td>
</tr>
<tr>
<td>4</td>
<td>RS-232</td>
</tr>
<tr>
<td>5</td>
<td>SNMP / AS400 slot</td>
</tr>
<tr>
<td>6</td>
<td>EPO / dry contact input port</td>
</tr>
<tr>
<td>7</td>
<td>Dry contact output port</td>
</tr>
<tr>
<td>8</td>
<td>AC output 10 A</td>
</tr>
<tr>
<td>9</td>
<td>AC input 16 A</td>
</tr>
<tr>
<td>10</td>
<td>AC input 20 A</td>
</tr>
<tr>
<td>11</td>
<td>AC output 16 A</td>
</tr>
<tr>
<td>12</td>
<td>EPO</td>
</tr>
<tr>
<td>13</td>
<td>Parallel port</td>
</tr>
<tr>
<td>14</td>
<td>Dry in / out</td>
</tr>
<tr>
<td>15</td>
<td>MBP connector</td>
</tr>
<tr>
<td>16</td>
<td>Output breaker</td>
</tr>
<tr>
<td>17</td>
<td>I/O terminals</td>
</tr>
<tr>
<td>18</td>
<td>Input breaker</td>
</tr>
<tr>
<td>19</td>
<td>EBM connector</td>
</tr>
</tbody>
</table>

**UPS cabinet configuration**
- Online double conversion UPS
- Efficiency in online mode up to 95%
- Efficiency in eco-mode up to 98%
- Configurable in tower format or rack-mount
- Three 6 kVA and 10 kVA UPSs (max 30 kW per system) can be connected in parallel for redundancy or extra capacity
- Cold start
- Frequency converter operation (50 Hz or 60 Hz)
- Interfaces: USB, RS-232, potential-free contacts, EPO contact inputs
- Emergency power-off for remote shutdown
- Load segmentation (for PowerValue 11RT 1-3 kVA)

**Options**
- Rack installation kit allows for easy mounting to standard 19" rack
- Full range connectivity: SNMP, ModBus (RS-485 and TCP/IP), environmental monitoring probe, relay card with I/O contacts
- External maintenance bypass
- Automatic transfer switch (PowerValue 11RT 1-3 kVA)
## Technical specification

### PowerValue 11 RT

### GENERAL DATA

<table>
<thead>
<tr>
<th>Output rated power</th>
<th>1kVA B/S</th>
<th>2kVA B/S</th>
<th>3kVA B/S</th>
<th>G2 6kVA</th>
<th>G2 10kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 W</td>
<td>1'800W</td>
<td>2'400W</td>
<td>6'000W</td>
<td>10'000W</td>
<td></td>
</tr>
</tbody>
</table>

### Output power factor

| 0.9                | 0.9      | 0.9      | 1.0      | 1.0      |

### Topology

Online double conversion

### Parallel configuration

No No No Yes, up to 3 UPS Yes, up to 3 UPS

### Inbuilt batteries

Yes/No Yes/No Yes/No No No

### INPUT

#### Nominal input voltage

208/220/230/240 VAC

#### Input voltage tolerance

120-276 VAC (load dependent) 100-276 (load dependent)

#### Input current THDi

<5% with full resistive load <3% with full resistive load

#### Frequency range

45-55 Hz / 44-66 Hz 45-55Hz / 44-66Hz (extendable to 40~70HZ at load < 60%)

#### Power factor

≥0.99 ≥0.995

### OUTPUT

#### Rated output voltage

208/220/230/240 VAC

#### Voltage tolerance

±1% (referred to 230V)

#### Voltage distortion

≤2% linear load, ≤5% non linear load ≤1% linear load, <5% non linear load

#### Overload capacity (linear load) on inverter

12s: 102-129% load 10m: 102-125% load
1.5s: 130-150% load 30s: 126 to 150% load
100ms: ≥ 150% load 500 ms: ≥ 150% load

#### Nominal frequency

50 or 60 Hz

#### Crest factor

3:1 (load supported)

### EFFICIENCY

#### Overall system efficiency

Up to 93% Up to 95%

#### In eco-mode

Up to 95% Up to 98%

### ENVIRONMENT

#### Protection rating

IP20

#### Storage temperature

UPS: -25°C to 60°C; Batteries: 0°C to 35°C

#### Operating temperature

0°C to 40°C

#### Relative humidity

0% to 95%

#### Altitude (above see level)

1000m without derating

### BATTERIES

#### Type

VRLA (valve regulated lead-acid)

#### Inbuilt batteries

3x7.2 Ah (B) 4x9Ah(B) 6x9Ah(B) - -

#### Charging current

1.5A/6A 1.5A/6A 1.5A/6A 0-12 A adjustable

#### Recharge time (inbuilt batteries)

3h to 90%

### COMMUNICATIONS

#### User interface

LCD display

#### Optional communication cards

SNMP; ModBus; AS400; Environmental monitoring sensor probe

### STANDARDS

#### Safety

IEC/EN 62040-1

#### EMC

IEC/EN 62040-2

#### Performance

IEC/EN 62040-3

#### Manufacturing

ISO 9001:2015, ISO 14001:2015, OHSAS 18001

### WEIGHT, DIMENSIONS

#### Weight

16.2/8.4 Kg 19.7/9.3 Kg 28.6/13 Kg 13.6 Kg 15.5 Kg

#### Dimensions w x h x d

438x86.5(2U) x436mm 438x86.5(2U) x436mm 438x86.5(2U) x608mm 438x86(2U) x573 mm 438x86(2U) x573 mm

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