Safety instructions and warnings

Disconnect system from supply network!
Before any installation, maintenance or modification work: Disconnect the system from the supply network and protect against switching on.

Before start of operation:
Attention: Improper installation may impair safety and cause operational difficulties or destruction of the unit. Before operation the following must be ensured:

- Connect to earth according to the specific national regulations for class of protection I.
- Cease and unit must be sufficiently fused. A disconnecting device has to be provided for the end product to disengage the unit and supply cables from supply mains if required.
- The protective earth conductor must be connected to the terminal.
- Rate the output lines for the output current of the device and connect them with the correct polarity.
- The protective earth conductor must be connected to the terminal.
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In operation:
- Do not rectify the installation (primary and secondary side)! High current! Risk of electric arcs and electric shock (life threatening).
- Risk of burns! Depending on the operation conditions the enclosure can become very hot.
- If the internal fuse blows, most probably the device is defective. In this case, an examination of the device by the manufacturer is necessary.

Warning: High voltage! Stored energy! Energy hazard at output!
The device contains components with high stored energy and circuits with high voltage! Do not introduce any objects into the device, and do not open the unit. With some devices of this range the output is capable of providing hazardous voltage. Ensure that the service personnel is protected against inadvertent contact with parts carrying energy.

Illustrations of the products

Characteristic curves of input voltage

Characteristic curves of temperature

Characteristics of input voltage

Characteristics of output voltage

Characteristics of output current:

Specifications:

For all terminals.

Primary switch mode power supplies CP-PX range

Warning! Hazardous voltage! Installation by person with electrotechnical expertise only and in accordance with the specific national regulations (e.g., VDE, etc.). Before installing the unit, read these operating and installation instructions carefully and completely. The devices are maintenance-free chassis-mounted units.

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### Technical data

Data at Ta = 25 °C, Uin = 230 V AC and rated values, unless otherwise indicated

<table>
<thead>
<tr>
<th>Type</th>
<th>CP-PX 5/5.0</th>
<th>CP-PX 24/1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input circuit - Supply circuit</td>
<td>L, N</td>
<td>L, N</td>
</tr>
<tr>
<td>Rated input voltage (Uin)</td>
<td>100-240 V AC</td>
<td>230 V AC</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>90-204 V AC</td>
<td></td>
</tr>
<tr>
<td>Frequency range AC</td>
<td>47-63 Hz</td>
<td></td>
</tr>
<tr>
<td>Typical input current at 115 V AC</td>
<td>0.45 A</td>
<td>0.55 A</td>
</tr>
<tr>
<td>Typical input current at 230 V AC</td>
<td>0.45 A</td>
<td>0.55 A</td>
</tr>
<tr>
<td>Rated output power</td>
<td>25 W</td>
<td>14 W</td>
</tr>
<tr>
<td>Rated output voltage</td>
<td>5 V DC</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Adjustment range of the output voltage</td>
<td>4.5 - 5.5 V DC</td>
<td>21.6 - 26.4 V DC</td>
</tr>
<tr>
<td>Rated output current at -20 °C ≤ Ta ≤ 50 °C</td>
<td>5.0 A</td>
<td>5.0 A</td>
</tr>
<tr>
<td>Rated output current at 50 °C ≤ Ta ≤ 70 °C</td>
<td>1.1 A</td>
<td>1.1 A</td>
</tr>
<tr>
<td>Maximum ripple and switching peaks according to IEC/EN 61829</td>
<td>300 mV p-p (class C)</td>
<td>300 mV p-p (class A)</td>
</tr>
</tbody>
</table>

**Recommended backup fuse for wire protection at 1.5 mm²:**
- 1 pole miniature circuit breaker ABB type S 200, with B or C characteristic, max. rating 16 A

**Output circuit - Power output**
- Rated output power: 25 W, 25 W
- Rated output voltage: 5 V DC, 24 V DC
- Adjustment range of the output voltage: 4.5 - 5.5 V DC, 21.6 - 26.4 V DC
- Rated output current at -20 °C ≤ Ta ≤ 50 °C: 5.0 A, 5.0 A
- Rated output current at 50 °C ≤ Ta ≤ 70 °C: 1.1 A
- Maximum ripple and switching peaks according to IEC/EN 61829: 300 mV p-p (class C), 300 mV p-p (class A)

**General data**
- Efficiency: Typ. 75%, Typ. 79%
- Degree of protection (IEC/EN 60529): housing - IP 20
- Protection class (IEC/EN 61439): 1

**Environmental data**
- Ambient temperature range:
  - Operation: -20...+10 °C (4...+50 °F)
  - Rated load: -20...+40 °C (-4...+104 °F)
  - Storage: -40...+60 °C (-40...+140 °F)

**Insulation data**
- Pollution degree: 2
- Overvoltage category (EN 60721-1) - C0000K: 8
- Overvoltage category (EN 60721-1) - C0000L: 8

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**Note:** We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility what so ever for potential errors or possible lack of information in this document.

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**Abbreviation:**
- M3× L screw with double washers (L=T+5 mm)
- M3× L screw
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- M3× L screw

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