CP-S.1 power supply range
Primary switch mode power supplies

CP-S.1 power supplies: high efficiency and reliability delivered in a compact footprint. Designed for a huge variety of applications, including machine building segments, this advanced range boosts an integrated 150 % power reserve for five seconds and operates at an efficiency of up to 94 %. With overheat protection, active power factor correction, a broad certified AC and DC input range and extensive worldwide approvals including marine, the all-new CP-S.1 power supplies are a preferred choice for multiple industrial applications.

Complete offering
A complete 24 V DC offering from 3 A up to 40 A in metal enclosure suits perfectly to OEM machine building requirements.

Small footprint
CP-S.1 power supplies can save the valuable installation space of the control cabinet due to compact design and high efficiency.

Robust design
Coated PCBA and marine certification enable CP-S.1 power supplies being the perfect match for e.g. Wind, Solar, Marine applications.

Redundancy units
True redundancy could be achieved by using the optional redundancy unit CP-C.1-A-RU.

3 A - 40 A
Operating controls

**OUTPUT L+, L-:**
Output terminals
24 V DC

**OUTPUT Adjust:**
Rotary potentiometer -
Adjustment of output voltage
24-28 V DC

Circuit diagram

**INPUT L(+), N(-), PE:**
Input terminals
100-240 V AC / 100-250 V DC

Characteristics

- Rated supply voltage range from 100-240 V AC / 100-250 V DC*
- Rated output voltage 24 V DC
- Rated output current of 3.0 A, 5.0 A, 10.0 A, 20.0 A and 40.0 A
- High efficiency of up to 94 %
- Power reserve design of 150 % for 5 s
- Output voltage adjustable via front-face rotary potentiometer
  “OUTPUT Adjust”, 24-28 V
- Low power dissipation and low heating
- Free convection cooling (no forced cooling)
- Coated PCBAs
- Open-circuit, overload and short-circuit protection
- Integrated input fuse
- DC OK - signaling output “13-14” (relay)
- CP-C.1-A-RU redundancy unit offers true redundancy, available as accessory
- Various approvals and marks

Ordering details

<table>
<thead>
<tr>
<th>Description</th>
<th>Rated Input voltage</th>
<th>Rated output voltage</th>
<th>Rated output current</th>
<th>Output power</th>
<th>Order code</th>
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</thead>
<tbody>
<tr>
<td>CP-S.1 24/3.0</td>
<td>100-240 V AC, 100-250 V DC</td>
<td>24 V DC</td>
<td>3.0 A</td>
<td>72 W</td>
<td>1SVR320361R1000</td>
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<tr>
<td>CP-S.1 24/5.0</td>
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<td></td>
<td>5.0 A</td>
<td>120 W</td>
<td>1SVR320561R1000</td>
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<td>CP-S.1 24/10.0</td>
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<td></td>
<td>10.0 A</td>
<td>240 W</td>
<td>1SVR320661R1000</td>
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<td>CP-S.1 24/20.0</td>
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<td></td>
<td>20.0 A</td>
<td>480 W</td>
<td>1SVR320761R1000</td>
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<td>CP-S.1 24/40.0</td>
<td>110-240 V AC, 110-250 V DC</td>
<td>12 - 48 V DC</td>
<td>40.0 A</td>
<td>960 W</td>
<td>1SVR320861R1000</td>
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<tr>
<td>CP-C.1-A-RU</td>
<td>10 - 58 V DC</td>
<td>2 x 20 A or 1 x 40 A</td>
<td>-</td>
<td>-</td>
<td>1SVR360060R1001</td>
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*) 960 W variant with 110 - 240 V AC / 110 - 250 V DC