

Power supply CP-E 12/10.0

Primary switch mode power supply

The CP-E range offers enhanced functionality while the number of different types has been considerably reduced. Now all power supply units can be operated at an ambient temperature of up to +70 °C.



2C0C 271 024 F0008

Characteristics

- Rated output voltage 12 V DC
- Output voltage adjustable via front-face rotary potentiometer “OUTPUT Adjust”
- Rated output current 10 A
- Rated output power 120 W
- Supply range 115/230 V AC (90-132 V AC, 180-264 V AC, 210-375 V DC), auto select
- Typical efficiency of 84 %
- Low power dissipation and low heating
- Free convection cooling (no forced cooling with ventilators)
- Ambient temperature range during operation -35...+70 °C
- Open-circuit, overload and short-circuit stable
- Integrated input fuse
- Redundancy unit CP-A RU offering true redundancy, available as accessory
- LEDs for status indication

Approvals

- UL[®] LISTED US UL 508, CAN/CSA C22.2 No.107.1¹⁾
- ANSI/ISA-12.12, CAN/CSA C22.2 No. 213 (Class I, Div. 2, hazardous locations)
- UL[®] US UL 60950, CAN/CSA C22.2 No.60950¹⁾
- EAC EAC
- CCC CCC¹⁾

¹⁾ Approval refers to rated input voltage U_n

Marks

- CE CE
- RCM RCM

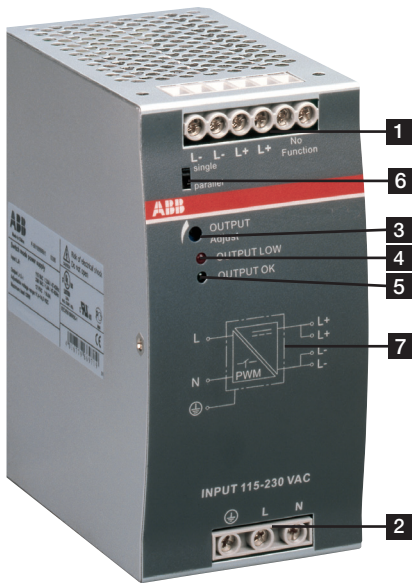
Order data

Type	Input voltage range	Rated output voltage / current	Order code
CP-E 12/10.0	90-132 V AC / 180-264 V AC 210-375 V DC	12 V DC / 10 A	1SVR 427 035 R1000

Order data – accessories

Type	Description	Order code
CP-A RU	Redundancy unit The CP-A RU provides decoupling of two CP-E power supply units ≤ 40 V and ≥ 5 A.	1SVR 427 071 R0000

Functions



- 1** OUTPUT L+, L+, L-, L-:
terminals – output
- 2** INPUT L, N, PE:
terminals – input
- 3** OUTPUT Adjust:
potentiometer – adjustment of the output voltage
- 4** OUTPUT LOW:
red LED – output voltage too low
- 5** OUTPUT OK:
green LED – output voltage OK
- 6** single/parallel:
sliding switch – adjustment of single or parallel operation
- 7** Circuit diagram

Application

The primary switch mode power supply offers two voltage input ranges. This enables the supply with AC or DC. Furthermore it is equipped with two generous capacitors, which ensure mains buffering of at least 30 ms (at 230 V AC). That is why the devices can be used worldwide also in high fluctuating networks and battery-powered plants.

Operating mode

By means of the potentiometer “OUTPUT Adjust” the output voltage can be adjusted within a range of 11.4 to 14.5 V DC. Thus, the power supply can be optimally adapted to the application, e.g. compensating the voltage drop caused by a long line length.

The green LED “OUTPUT OK” is lightening during proper operation.

The red LED “OUTPUT LOW” is lightening when the output voltage is too low.

Switch “single/parallel” for selection of single or parallel operation.