

Power supply CP-E 12/2.5

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.



Characteristics

- Rated output voltage 12 V DC
- Output voltage adjustable via front-face rotary potentiometer “OUTPUT Adjust”
- Rated output current 2.5 A
- Rated output power 30 W
- Wide range input 100-240 V AC (85-264 V AC, 90-375 V DC)
- Typical efficiency of 84 %
- Low power dissipation and low heating
- Free convection cooling (no forced cooling with ventilators)
- Ambient temperature range during operation -40...+70 °C
- Open-circuit, overload and short-circuit stable
- Integrated input fuse
- Redundancy unit CP-RUD offering true redundancy, available as accessory
- LED for status indication

Approvals

- UL LISTED US UL 508, CAN/CSA C22.2 No.107.1¹⁾
- eFUS US UL 1310, CAN/CSA C22.2 No.223 (Class 2 Power Supply)
- eFUS US ANSI/ISA-12.12, CAN/CSA C22.2 No. 213 (Class I, Div. 2, hazardous locations)
- eFUS US UL 60950, CAN/CSA C22.2 No.60950¹⁾
- EAC EAC
- CCC CCC¹⁾

¹⁾ Approval refers to rated input voltage U_{in}

Marks

- CE CE
- RCM RCM

Order data

Type	Input voltage range	Rated output voltage / current	Order code
CP-E 12/2.5	85-264 V AC / 90-375 V DC	12 V DC / 2.5 A	1SVR 427 032 R1000

Order data – accessories

Type	Description	Order code
CP-RUD	Redundancy unit The CP-RUD provides decoupling of two CP-E power supply units ≤ 35 V and < 5 A.	1SVR 423 418 R9000

Functions



- 1** OUTPUT L+, L-:
terminals – output
- 2** INPUT L, N, PE:
terminals – input
- 3** OUTPUT OK:
green LED – output voltage OK
- 4** OUTPUT Adjust:
potentiometer – adjustment of the output voltage
- 5** 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 12 to 14 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 “OK” is lightening during proper operation.