

# Power supply CP-E 24/1.25

## 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 24 V DC
- Output voltage adjustable via front-face rotary potentiometer “OUTPUT Adjust”
- Rated output current 1.25 A
- Rated output power 30 W
- Wide range input 100-240 V AC (85-264 V AC, 90-375 V DC)
- Typical efficiency of 86 %
- 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
- Signalling output “DC OK” (Transistor) for output voltage OK
- LEDs for status indication

### Approvals

- UL 508, CAN/CSA C22.2 No.107.1 <sup>1)</sup>
- UL 1310, CAN/CSA C22.2 No.223 (Class 2 Power Supply)
- ANSI/ISA-12.12, CAN/CSA C22.2 No. 213 (Class I, Div. 2, hazardous locations)
- UL 60950, CAN/CSA C22.2 No.60950 <sup>1)</sup>
- EAC
- CCC <sup>1)</sup>

<sup>1)</sup> Approval refers to rated input voltage  $U_{in}$

### Marks

- CE
- RCM

### Order data

Type	Input voltage range	Rated output voltage / current	Order code
CP-E 24/1.25	85-264 V AC / 90-375 V DC	24 V DC / 1.25 A	1SVR 427 031 R0000

### Order data – accessories

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

## Functions



- 1** OUTPUT L+,L+, L-, L-:  
terminals – output
- 2** DC OK:  
terminal – signalling output
- 3** INPUT L, N, PE:  
terminals – input
- 4** OUTPUT OK:  
green LED – output voltage OK
- 5** OUTPUT Adjust:  
potentiometer – adjustment of the output voltage
- 6** 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 24 to 28 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 operation.