

The CP-E range power supply units for standard applications



The CP-E range power supply units are an impressive addition to the ABB power supply program. This range offers types with output voltages from 5 V DC to 48 V DC at output currents of 0.625 A to 20 A. The high thermal efficiency of up to 90 %, corresponding to very low power and heat dissipation, allows operation without forced cooling. The functionality has been enhanced while the number of different types has been considerably reduced. Of course all power supplies of the CP-E range are approved in accordance with all relevant international standards.

Characteristics of the CP-E range









- Output voltage 5 V, 12 V, 24 V, 48 V DC
- Adjustable output voltages
- Output current 0.625 A / 0.75 A / 1.25 A / 2.5 A / 3 A / 5 A / 10 A / 20 A
- Power range 15 W, 18 W, 30 W, 60 W, 120 W, 240 W, 480 W
- High efficiency of up to 90 %
- Low power dissipation and low heating
- Free convection cooling (no forced cooling with ventilators)
- Ambient temperature range during operation -25... +70 °C
- Open-circuit, overload and short-circuit stable
- Integrated input fuse
- Output characteristics:
 - Hiccup-mode on CP-E 5/3.0 and CP-E 24/0.75
 - U/I characteristic curve on all other CP-E devices (fold-forward behaviour at overload – no shutdown)
- Redundancy units offering true redundancy
- LED(s) for status indication
- Signalling output/contact:
 - Transistor on 24 V devices > 18 W and < 120 W
 - Relay on 24 V devices 120 W

True redundancy and decoupling

The CP-E range power supply units are the economical solution whenever the capacity or output voltage of a power supply unit needs to be increased. Both serial and parallel connection is possible.

When it comes to decoupling parallelised power supply units < 48 V and/or decoupling issues, true redundancy can be achieved with our redundancy module CP-RUD.

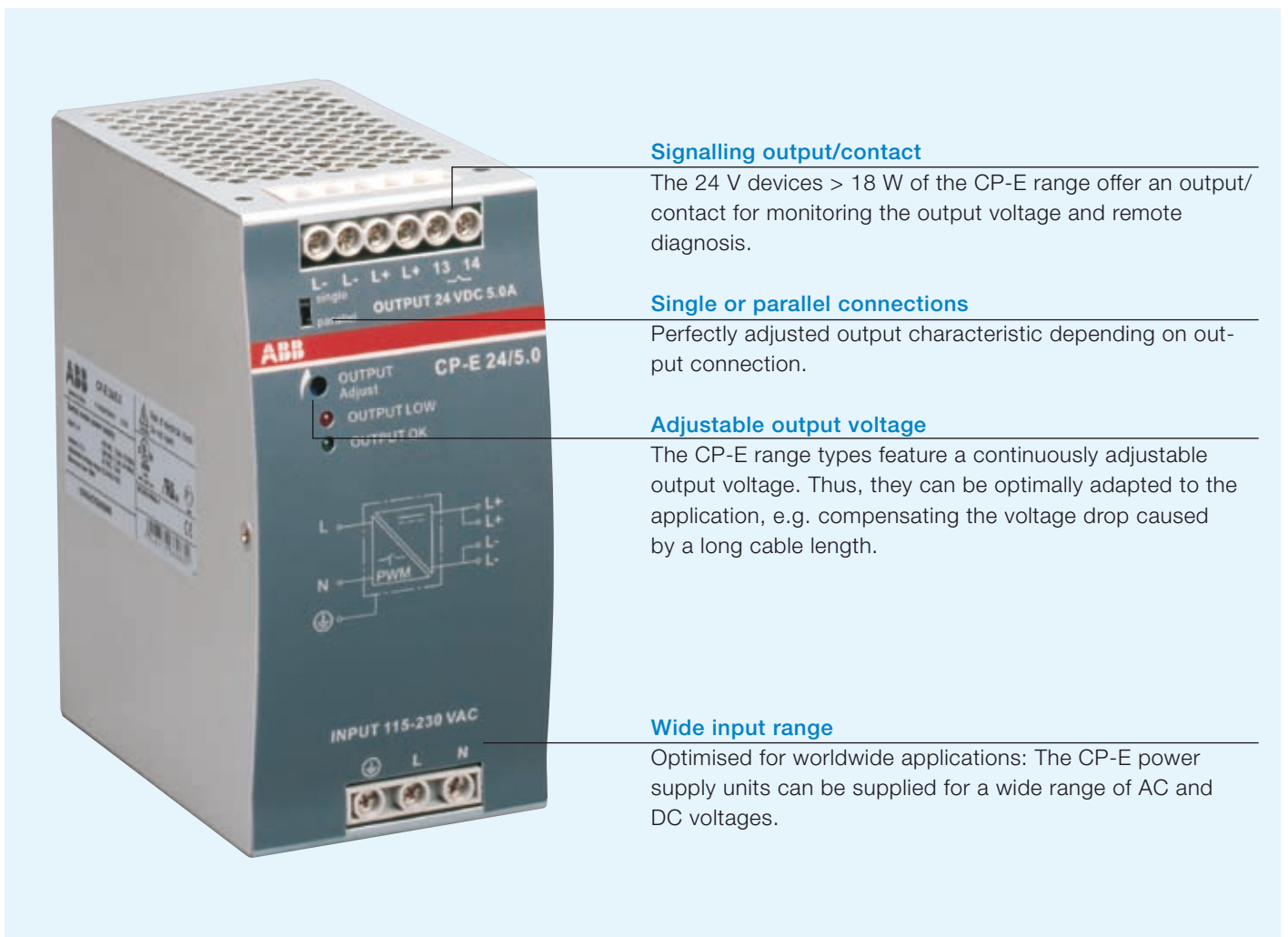
Approvals/marks of the power supply units

-  UL 508, CAN/CSA C22.2 No.14 ¹⁾
-  UL 1310, CAN/CSA C22.2 No.223 (Class 2 Power Supply) ²⁾
-  ANSI/ISA-12.12 (Class I, Div. 2 hazardous locations) ²⁾
-  UL 60950, CAN/CSA C22.2 No.60950 ¹⁾
-  GOST
-  CCC ^{1) 2)}
-  CE
-  C-Tick ³⁾

¹⁾ Approvals refer to rated input voltage U_{IN}

²⁾ Except power supply units ≥ 5 A

³⁾ Available for power supply units < 5 A, pending for power supply units ≥ 5 A



Signalling output/contact

The 24 V devices > 18 W of the CP-E range offer an output/contact for monitoring the output voltage and remote diagnosis.

Single or parallel connections

Perfectly adjusted output characteristic depending on output connection.

Adjustable output voltage

The CP-E range types feature a continuously adjustable output voltage. Thus, they can be optimally adapted to the application, e.g. compensating the voltage drop caused by a long cable length.

Wide input range

Optimised for worldwide applications: The CP-E power supply units can be supplied for a wide range of AC and DC voltages.