

Power supply CP-C.1 24/5.0

Product revision \geq F

High-performance primary switch mode power supply

The CP-C.1 power supplies are ABB's high-performance and most advanced range. With excellent efficiency, high reliability and innovative functionality they are prepared for the most demanding industrial applications. These power supplies have a 50 % integrated power reserve and operate at an efficiency of up to 93 %. They are equipped with overheat protection and active power factor correction. Combined with a broad AC and DC input range and extensive worldwide approvals the CP-C.1 power supplies are the preferred choice for professional DC applications. Giving the power to control.



Characteristics

- Rated output voltage 24 V DC
- Power reserve design delivers up to 150 % at $T_a \leq 40$ °C
- Output voltage adjustable via front-face rotary potentiometer "OUTPUT Adjust", 22.5-28.5 V
- Input voltage range 100-240 V AC, 90-300 V DC
- High efficiency
- Low power dissipation and low heating
- Free convection cooling (no forced cooling)
- Devices with coated PCBAs for harsh environments and with extended temperature range
- Open-circuit, overload and short-circuit stable
- Integrated input fuse
- DC OK - signaling output "13-14" (relay), power reserve signaling output " $I > I_R$ " (transistor)
- Redundancy unit CP-A RU offering true redundancy, available as accessory

Approvals

- UL 508, CSA-C22.2 NO. 107.1
- ANSI/ISA-12.12, CAN/CSA C22.2 No. 213 (Class I, Div. 2, hazardous locations)
- UL 60950-1, CAN/CSA C22.2 No.60950-1
- EAC only uncoated version
- ATEX only coated version
- SEMI F47 only uncoated version

Marks

- CE
- RCM

Ordering details - CP-C.1

Input voltage range	Rated output voltage / current	PCBA	Type	Order code	Weight (1 pc.) kg (lb)
100-240 V AC, 90-300 V DC	24 V DC / 5 A	uncoated	CP-C.1 24/5.0	1SVR360563R1001	0.74 (1.63)
100-240 V AC, 90-300 V DC	24 V DC / 5 A	coated	CP-C.1 24/5.0-C	1SVR360563R2001	0.74 (1.63)

Related products

Description	Redundancy unit	Type	Order code	Weight (1 pc.) kg (lb)
2 inputs each up to 20 A and 1 output up to 40 A	≤ 40 V and ≥ 5 A	CP-A RU	1SVR427071R0000	0.89 (1.96)

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Abbreviations

MCB - Miniature circuit breaker
AC - Alternating current
DC - Direct current
LED - Light emitting diode
L - Line
N - Neutral
PE - Protective earth
PLC - Programmable logic controller
DIN - Deutsche Industrie Norm
PELV - Protective extra low voltage
TN - Terre neutre (neutral grounded)
TT - Terre terre (grounded network)
IT - Isolé terre (isolated network)
VDE - Verein Deutscher Elektrotechniker
IP20 - international protection code
AWG - American wire gauge
IEC - International electrotechnical commission
UL - Underwriters laboratories
EN - Europäische Norm
SELV - Safety extra low voltage
EMC - Electromagnetic compatibility
SEMI - Semiconductor equipment materials international
FCC - Federal communication commission
CISPR - Comité international spécial des perturbations radioélectriques
CSA - Canadian standards association