

Power supply CP-C.1 24/20.0

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 30 % integrated power reserve and operate at an efficiency of up to 94 %. 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 130 % 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, 90-250 V DC
- High efficiency
- Low power dissipation and low heating
- Free convection cooling (no forced cooling)
- Devices with coated PCBA's 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

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, 90-250 V DC | 24 V DC / 20 A | uncoated | CP-C.1 24/20.0 | 1SVR360763R1001 | 1.57 (3.46) |
| 100-240 V AC, 90-250 V DC | 24 V DC / 20 A | coated | CP-C.1 24/20.0-C | 1SVR360763R2001 | 1.57 (3.46) |

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 - Isol e terre (isolated network) |
| VDE - Verein Deutscher Elektrotechniker |
| IP20 - international protection code |
| AWG - American wire gauge |
| IEC - International electrotechnical commission |
| UL - Underwriters laboratories |
| EN - Europ ische Norm |
| SELV - Safety extra low voltage |
| EMC - Electromagnetic compatibility |
| SEMI - Semiconductor equipment materials international |
| FCC - Federal communication commission |
| CISPR - Comit  international sp cial des perturbations radio lectriques |
| CSA - Canadian standards association |