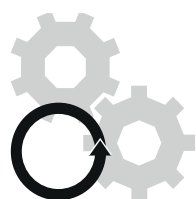


CP-C.1 - Giving the power to control

ABB's high-performance power supplies



The CP-C.1 power supplies are ABB's high-performance and most advanced range. With excellent efficiency, high reliability and innovative functionality, it is prepared for the most demanding industrial applications. These power supplies have a 50% integrated power reserve and operate at a high efficiency 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.



Continuous operation

Up to 50% integrated power reserve

- Power reserve to allow performance with 50% more current
- Parallel connection to increase power or fail-safe redundancy
- Long lifetime
- High peak currents for switching on capacitive loads are supported



Project cost reduction

Operate at 94% efficiency

- Save money on energy during operation thanks to high efficiency
- Lower need of external cooling in the enclosure
- Small size to reduce space required in panel



Harsh environment

Operate anywhere

- Applicable in environments from -25°C (-40°C coated versions) to +70°C
- High MTBF values

Power reserve

The primary switch mode power supply CP-C.1 is equipped with a power reserve to handle particularly heavy loads, e.g. during the start-up of a process or a motor.

The CP-C.1 will deliver up to 150% of the rated current to secure operation on heavy loads. A yellow LED gives a clear visual status when the power reserve is in use.

Characteristics

- 24 V DC output voltage
- Power reserve delivers up to 150% at $T_a \leq 40^\circ\text{C}$
- Output voltage adjustable from 22.5 to 28.5 V via front-face rotary potentiometer
- 100-240 V AC, 90-300 V DC input voltage range
- High efficiency up to 94%
- Low power dissipation and low heating
- Free convection cooling (no forced cooling)
- Ambient temperature range during operation of -25°C (-40°C coated versions) to $+70^\circ\text{C}$
- Open-circuit, overload and short-circuit stable
- Integrated input fuse
- DC OK - signaling output "13-14" (relay), Power reserve signaling output "I > IR (transistor)
- Redundancy unit CP-C.1-A-RU offers true redundancy, available as an accessory
- Versions with coated printed circuit board assembly (PCBA) offer operating temperatures down to -40°C and ATEX certification

CP-C.1 ordering details

Input voltage range	Rated output voltage and current	Type	PCBA	Order code
100-240 V AC, 90-300 V DC	24 V DC / 5 A	CP-C.1 24 / 5.0	uncoated	1SVR360563R1001
	24 V DC / 10 A	CP-C.1 24 / 10.0	uncoated	1SVR360663R1001
	24 V DC / 20 A	CP-C.1 24 / 20.0	uncoated	1SVR360763R1001
100-240 V AC, 90-300 V DC	24 V DC / 5 A	CP-C.1 24 / 5.0-C	coated	1SVR360563R2001
	24 V DC / 10 A	CP-C.1 24 / 10.0-C	coated	1SVR360663R2001
	24 V DC / 20 A	CP-C.1 24 / 20.0-C	coated	1SVR360763R2001



Achieve true redundancy with CP-C.1-A-RU

The redundancy unit CP-C.1-A-RU increases the operational reliability and eliminates power supply outages. It provides decoupling of two CP-C.1 units and automatic redundancy of power supply for critical applications. The CP-C.1-A-RU has two inputs, each up to 20 A, and one output up to 40 A.

Redundancy unit ordering details

Suitable for decoupling two 24 V DC power supply units	Type	PCBA	Order code
$\leq 28.5 \text{ V et } \leq 40 \text{ A}$	CP-C.1-A-RU	Uncoated	1SVR360060R1001
	CP-C.1-A-RU-C	Coated	1SVR360060R2001

Additional Information

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

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Signaling output

The CP-C.1 is equipped with a relay output to signal output OK as well as a transistor output to indicate when the power reserve is active. These signals can be used for communication to a higher level control system, e.g. a PLC.

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