

CP-S.1 power supply range

Primary switch mode power supplies



reddot winner 2022
industrial design



CP-S.1 power supplies: high efficiency and reliability delivered in a compact footprint. Designed for a huge variety of applications, including machine building segments, this advanced range boosts an integrated 150 % power reserve for five seconds and operates at an efficiency of up to 94 %. With overheat protection, active power factor correction, a broad certified AC and DC input range and extensive worldwide approvals including marine, the all-new CP-S.1 power supplies are a preferred choice for multiple industrial applications.

Complete offering

A complete 24 V DC offering from 3 A up to 40 A in metal enclosure suits perfectly to OEM machine building requirements.

Small footprint

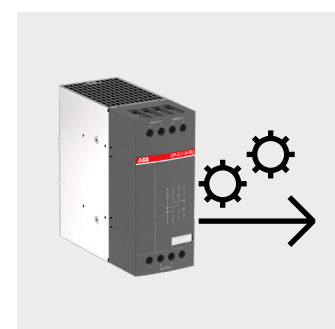
CP-S.1 power supplies can save the valuable installation space of the control cabinet due to compact design and high efficiency.

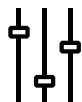
Robust design

Coated PCBA and marine certification enable CP-S.1 power supplies being the perfect match for e.g. Wind, Solar, Marine applications.

Redundancy units

True redundancy could be achieved by using the optional redundancy unit CP-C.1-A-RU.





Operating controls

OUTPUT L+, L-:

Output terminals
24 V DC

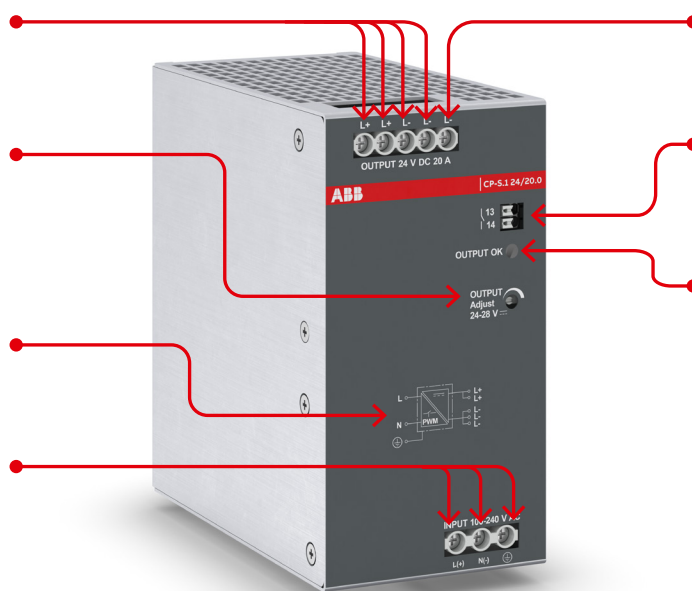
OUTPUT Adjust:

Rotary potentiometer -
Adjustment of output voltage
24-28 V DC

Circuit diagram

INPUT L(+), N(-), PE:

Input terminals
100-240 V AC /
100-250 V DC



Additional L(-) terminal
for e.g. grounding

13-14: Relay output

Relay output to signal
'Output OK'

OUTPUT OK: green LED for indi-
cation of 24 V DC

- on: output voltage >92 %
of adjusted voltage
- flashes: output voltage <90 %
of adjusted voltage



Characteristics

- Rated supply voltage range from 100-240 V AC / 100-250 V DC
- Rated output voltage 24 V DC
- Rated output current of 3.0 A, 5.0 A, 10.0 A, 20.0 A and 40.0 A
- High efficiency of up to 94 %
- Power reserve design of 150 % for 5 s
- Output voltage adjustable via front-face rotary potentiometer
"OUTPUT Adjust", 24-28 V
- Low power dissipation and low heating
- Free convection cooling (no forced cooling)
- Coated PCBAs
- Open-circuit, overload and short-circuit protection
- Integrated input fuse
- DC OK - signaling output "13-14" (relay)
- CP-C.1-A-RU redundancy unit offers true
redundancy, available as accessory
- Various approvals and marks



Ordering details

Description	Rated input voltage	Rated output voltage	Rated output current	Output power	Order code
CP-S.1 24/3.0	100-240 V AC, 100-250 V DC	24 V DC	3.0 A	72 W	1SVR320361R1000
CP-S.1 24/5.0			5.0 A	120 W	1SVR320561R1000
CP-S.1 24/10.0			10.0 A	240 W	1SVR320661R1000
CP-S.1 24/20.0			20.0 A	480 W	1SVR320761R1000
CP-S.1 24/40.0	110-240 V AC, 110-250 V DC		40.0 A	960 W	1SVR320861R1000
CP-C.1-A-RU	10 - 56 V DC	12 - 48 V DC	2 x 20 A or 1 x 40 A	-	1SVR360060R1001

ABB STOTZ-KONTAKT GmbH

Smart Power division

Eppelheimer Straße 82
69123 Heidelberg
Germany

abb.com/lowvoltage

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 AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.
© Copyright 2021 ABB. All rights reserved.
Specifications subject to change without notice.