Power supply CP-T 24/10.0 Primary switch mode power supply

The CP-T range of three-phase power supply units is the youngest member of ABB's power supply family. In terms of design and functionality, the new range perfectly supplements the existing products and extends the range appropriately. The devices can be supplied with a three-phase voltage as well as with two-phase mains. Here, ABB offers a power supply unit with 24 V DC output with 10 A and efficiency of up to 90 %. As in the case of all products, they are designed for an ambient temperature of up to 70 °C.

Characteristics

- Rated output voltage 24 V DC
- Output voltage adjustable via front-face rotary potentiometer "OUTPUT Adjust"
- Rated output current 10 A
- Rated output power 240 W
- Wide supply voltage range 3 x 400-500 V AC (340-575 V AC, 480-820 V DC)
- Two-phase supply with a derating of the output to 75 % possible / permitted
- 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 -40...+70 °C
- Open-circuit, overload and short-circuit stable
- Integrated input fuse
- Redundancy unit CP-A RU offering true redundancy, available as accessory
- Signalling contact "13-14" (solid-state) for output voltage OK



Approvals

CHURS UL 508, CAN/CSA C22.2 No.141)

callus ANSI/ISA-12.12 (Class I, Div. 2, Hazardous Locations), CAN/CSA C22.2 No. 2131)

LAN UL 60950, CAN/CSA C22.2 No. 60950¹⁾

@ GB4943, GB9254, GB17625.1

® GOST

1) Approvals refer to rated input voltage Uin

Marks

CE CE

C-Tick pending

Order data

Power supply

Type	Input voltage range	Rated output voltage	Rated output current	Order code
CP-T 24/10.0	340-575 V AC	24 V DC	10 A	1SVR 427 055 R0000
	480-820 V DC			

Accessory

Туре	Description	Order code
CP-A RU	The redundancy unit CP-A RU provides decoupling of two 24 V DC CP power supply units.	1SVR 427 071 R0000





1 Circuit diagram

2 Indication of operational states

OUTPUT LOW: red LED - output voltage too low OUTPUT OK: green LED - output voltage OK

3 Adjustable output voltage

OUTPUT Adjust: potentiometer

The CP-T 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.

4 Configuration of single or parallel operationSliding switch

5 Signalling contact

OUTPUT 13-14: terminals - signalling contact

A solid-state output indicates the error-free operation of the output voltage.

6 Output

OUTPUT L+, L+, L-, L-: terminals - output

5 Wide input range

INPUT L1, L2, L3, PE: terminals - input

Optimised for worldwide applications: The CP-T power supply units can be supplied for a wide range of AC and DC voltages. Both kinds of power supply (three-phase and two-phase) are possible.

Application

The primary switch mode power supply offers a three-phase supply voltage range of 3 x 400-500 V AC. A two-phase power supply is also possible and it can also be supplied by 480-820 V DC. Furthermore, this power supply unit is equipped with two generous capacitors, which ensure mains buffering of at least 20 ms. That is why the devices can be used worldwide also in high fluctuating networks and battery-powered plants.

Operating mode

By means of the potentiometer "OUTPUT Adjust" the output voltage can be adjusted within a range of 22.5-28.5 V DC. Thus, the power supply can be optimally adapted to the application, e.g. compensating the voltage drop caused by a long line length.

The green LED "OUTPUT OK" is lightening during proper operation, i. e. when the output voltage exceeds 75%.

The red LED "OUTPUT LOW" is lightening when the output voltage is less than 70 % of the rated output voltage.

Two-phase supply is permissible with a derating of the output to 75 %.

Signalling contact "13-14" (max. 60 V DC / 0.3 A) is ON when the output voltage exceeds 19.4 V.

Installation

The device must be installed by qualified persons only and in accordance with the specific national regulations (e.g. VDE, etc.). The devices are maintenance-free chassis-mounted units.

Before installation



DANGER!

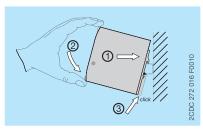
Components with high stored energy and circuits with high voltage

Danger to be electrocuted!

- ▶ Disconnect the system from the supply network and protect against switching on before any installation, maintenance or modification work.
- ▶ Do not introduce any objects into the unit and do not open the unit.
- ▶ Ensure that the service personnel is protected against inadvertent contact with parts carrying energy.

Mounting

The switch mode power supply can be snapped on a DIN rail (TH 35-15 or TH 35-7.5 according to IEC/EN 60715) as shown in the accompanying picture. For that the device is set with its mounting rail slide on the upper edge of the mounting rail and locked by lifting it downwards.



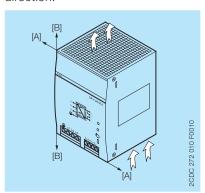
Demounting

Remove the switch mode power supply as shown in the accompanying picture. For that the latching lever is pulled downwards by means of the screwdriver. Alternatively you can press the unlock button to release the device. Then in both cases the device can be unhinged from the mounting rail edge and removed.

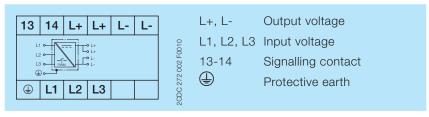


Mounting position

The devices have to be mounted horizontally with the input terminals on the bottom. In order to ensure a sufficient convection, the minimum distance to other modules should not be less than 25 mm (0.98 in) in vertical and horizontal direction.



Electrical connection



Connection diagram

Preparations:

- Connect to main according to the specific national regulations.
- Power supply cables and unit must be sufficiently fused. A disconnecting device has to be provided for the power supply to disengage unit and supply cables from supply mains if required.
- We recommend to choose the cable section as large as possible in order to minimize voltage drops.
- In order to ensure sufficient air-cooling the distance to other devices has to be considered.

Instructions:

- 1. Connect the input terminals L1, L2 and L3.
- 2. Connect the protective earth conductor to the terminal (protection class I).
- 3. Provide a suitable disconnecting device (e.g. line protection switch) in the supply line acc. to IEC/EN 60950.
- 4. Rate the lines for the maximum output current (considering the short-circuit current) or provide a separate fuse protection. The input side is protected by an internal input fuse.
- 5. Observe the polarity.

The device is overload, short-circuit and open-circuit proof. The secondary side of the power supply unit is electrically isolated from the input and internally not earthed (SELV) and can therefore be earthed by the user according to the needs with L+ or L- (PELV).

Operation



DANGER!

High current

Risk of electric arcs and electric shocks!

- Do not modify the installation (primary and secondary side).
- ► Intended use.



CAUTION!

Depending on the operation conditions the enclosure can become very hot

Risk of burns!

▶ In order to ensure sufficient air-cooling the distance to other devices has to be considered.

The device is intended for use as a primary switch mode power supply. Any other usage is not supported by the manufacturer. Other usage may impair safety and cause operational difficulties or destruction of the unit.

Service

The internal fuse is not user-replaceable. If the internal fuse blows, most probably the device is defective. In this case, an examination of the switch mode power supply by the manufacturer is necessary.

Technical data

Data at T_a = 25 °C, U_{in} = 3 x 400 V AC and rated values, unless otherwise indicated

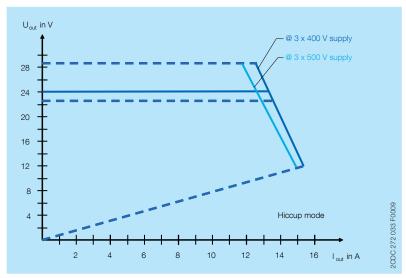
nput circuit - supply circuit		L1, L2, L3
Rated input voltage U _{in}		3 x 400-500 V AC
Input voltage range		340-575 V AC
		480-820 V DC
requency range AC		47-63 Hz
ypical input current		0.65 A
ypical power consumption		270 W
nrush current limiting		20 A
Power failure buffering time		min. 20 ms
nternal input fuse	per phase	2 A / 600 V AC
Recommended backup fuse		3 pole miniature circuit breaker ABB type S 203
	characteristic	
	max. rating	
Power factor correction (PFC)	9	yes, passive, 0.55
ischarge current	towards PE	
	input / output	
	input / output	V 0.20 IIIA
ndication of operational states		
Output voltage	OUTPUT OK: green LED	output voltage OK
	OUTPUT LOW: red LED	
	OOTI OT LOW. IEU LED	output voltage too low
Dutput circuit		L+, L+, L-, L-
Rated output power		240 W
Rated output power Rated output voltage		24 V DC
Rated output voltage		24 V DC
Rated output voltage Tolerance of the output voltage		24 V DC 0+1 %
Rated output voltage Tolerance of the output voltage Adjustment range of the output voltage	T₀ ≤ 60 °C	24 V DC 0+1 % 22.5-28.5 V DC
Rated output voltage colerance of the output voltage adjustment range of the output voltage Rated output current I _r	T _a ≤ 60 °C 60 °C < T _a ≤ 70 °C	24 V DC 0+1% 22.5-28.5 V DC 10 A
Rated output voltage Colerance of the output voltage Adjustment range of the output voltage Rated output current I _r Derating of the output current	60 °C < T _a ≤ 70 °C	24 V DC 0+1 % 22.5-28.5 V DC 10 A 2.5 %/°C
Rated output voltage colerance of the output voltage adjustment range of the output voltage Rated output current I _r	60 °C < T _a ≤ 70 °C 13-14	24 V DC 0+1% 22.5-28.5 V DC 10 A 2.5 %/°C solid-state (max. 60 V DC, 0.3 A)
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Rated output voltage Colerance of the output voltage Adjustment range of the output voltage Rated output current I _r Colerating of the output current Signalling contact for output voltage OK Mininum fuse rating to achieve short-circuit	$60~^{\circ}\text{C} < \text{T}_{\text{a}} \leq 70~^{\circ}\text{C}$ $13\text{-}14$ threshold insulation voltage $13\text{-}14$	24 V DC 0+1 % 22.5-28.5 V DC 10 A 2.5 %/°C solid-state (max. 60 V DC, 0.3 A) 17.6-19.4 V 500 V DC ≥ 60 V DC, ≤ 0.3 A fast-acting
Rated output voltage Colerance of the output voltage Adjustment range of the output voltage Rated output current I _r Colerating of the output current Signalling contact for output voltage OK Mininum fuse rating to achieve short-circuit	$60~^{\circ}\text{C} < T_a \leq 70~^{\circ}\text{C}$ $13\text{-}14$ threshold $\text{insulation voltage}$	24 V DC 0+1 % 22.5-28.5 V DC 10 A 2.5 %/°C solid-state (max. 60 V DC, 0.3 A) 17.6-19.4 V 500 V DC ≥ 60 V DC, ≤ 0.3 A fast-acting
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Rated output voltage Colerance of the output voltage Rated output range of the output voltage Rated output current I, Derating of the output current Signalling contact for output voltage OK	$60~^{\circ}\text{C} < \text{T}_{\text{a}} \leq 70~^{\circ}\text{C}$ $13\text{-}14$ threshold insulation voltage $13\text{-}14$	24 V DC 0+1 % 22.5-28.5 V DC 10 A 2.5 %/°C solid-state (max. 60 V DC, 0.3 A) 17.6-19.4 V 500 V DC ≥ 60 V DC, ≤ 0.3 A fast-acting ±1 % (single mode) ±5 % (parallel mode)
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Rated output voltage Colerance of the output voltage Control time Control time	60 °C < T _a ≤ 70 °C 13-14 threshold insulation voltage 13-14 load change statical change of output voltage within the input voltage range at rated load	24 V DC 0+1% 22.5-28.5 V DC 10 A 2.5 %/°C solid-state (max. 60 V DC, 0.3 A) 17.6-19.4 V 500 V DC ≥ 60 V DC, ≤ 0.3 A fast-acting ±1 % (single mode) ±5 % (parallel mode) ±0.5 % < 2 ms
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Rated output voltage Colerance of the output voltage Rated output current Ir Control time Control time Rated output voltage Rated output current Rated output voltage OK Alininum fuse rating to achieve short-circuit Rated output current Rated output voltage OK Rated output voltage OK	60 °C < T _a ≤ 70 °C 13-14 threshold insulation voltage 13-14 load change statical change of output voltage within the input voltage range at rated load at I _r with 7000 µF at rated load with 7000 µF	24 V DC 0+1 % 22.5-28.5 V DC 10 A 2.5 %/°C solid-state (max. 60 V DC, 0.3 A) 17.6-19.4 V 500 V DC ≥ 60 V DC, ≤ 0.3 A fast-acting ±1 % (single mode) ±5 % (parallel mode) ±0.5 % < 2 ms max. 1 s max. 1.5 s max. 1.50 ms max. 500 ms max. 150 ms

Output circuit - no-load, overload and short-	circuit behaviour	
Characteristic curve of output		combined U/I and hiccup mode
Short-circuit protection	continuous short-circuit proof	
Short-circuit behaviour	current limiting	
Resistance to reverse feed	approx. 35 V	
Overload protection	hiccup mode	
No-load protection	continuous no-load stability yes, automatic recovery after temperature went dowr	
Overtemperature protection		
Starting of capacitive loads		
General data		
Efficiency		typ. 90 %
Duty time		100%
Dimensions of housing (W x H x D)		89 x 124 x 118.8 mm (3.5 x 4.88 x 4.68 in)
Weight		1.045 kg (2.304 lb)
Material of housing		metal
Mounting		DIN rail (IEC/EN 60715), snap-on mounting
		without any tool
Mounting position		horizontal
Minimum distance to other units	horizontal / vertical	25 mm / 25 mm (0.98 in / 0.98 in)
Degree of protection	housing / terminals	IP20 / IP20
Protection class		I
Electrical connection - input circuit		L1, L2, L3
Wire size	fine-strand with wire end ferrule	0.2-4 mm² (24-11 AWG)
	fine-strand without wire end ferrule	0.2-6 mm² (24-10 AWG)
	rigid	0.2-6 mm² (24-10 AWG)
Stripping length		8 mm (0.31 in)
Tightening torque		1 Nm (9 lb.in)
Electrical connection - output circuit		L+, L+, L-, L-
Wire size	fine-strand with wire end ferrule	0.2-4 mm² (24-11 AWG)
	fine-strand without wire end ferrule	0.2-6 mm² (24-10 AWG)
	rigid	0.2-6 mm² (24-10 AWG)
Stripping length		8 mm (0.31 in)
Tightening torque		0.6 Nm (5.5 lb.in)
Electrical connection - signalling circuit		13, 14
Wire size	fine-strand with wire end ferrule	0.2-0.34 mm² (24-22 AWG)
	fine-strand without wire end ferrule	
	rigid	0.2-1 mm² (24-18 AWG)
Stripping length		8 mm (0.31 in)
	••••••	7

Environmental data			
Ambient temperature range	operation	-40+70 °C	
	rated load	-40+60 °C	
	storage	-40+85 °C	
Damp heat, cyclic	IEC/EN 60068-2-30	95 % without condensation	
Vibration, sinusoidal	IEC/EN 60068-2-6	2 g, 10-500 Hz, 2G, each along X, Y, Z axes 60 min / cycle	
Shock, half-sine IEC/EN 60068-2-27		15 g, 11 ms, 3 axes, 6 faces, 3 times for each face	
Isolation data			
Rated insulation voltage U _i	input circuit / output circuit	3 kV AC	
	input / PE	1.5 kV AC	
	output / PE	0.5 kV AC; 0.71 kV DC	
	signalling contact / PE	0.5 kV DC	
Pollution degree		2	
Overvoltage category	UL/EN/IEC 60950-1	11	
Standards			
Product standard		EN 61204-3	
Low Voltage Directive		2006/95/EC	
EMC Directive		2004/108/EC	
RoHS Directive		2002/95/EC	
Electrical safety		EN 60950-1, UL 60950-1, UL 508,	
Licothical duriety		EN 61558-1, EN 61558-2-17, EN 60204-1	
Protective low voltage		SELV	
Electromagnetic compatibility			
Interference immunity to		IEC/EN 61000-6-2	
electrostatic discharge	IEC/EN 61000-4-2	level 4 (air discharge 15 kV / contact discharge 8 kV)	
radiated, radio-frequency, electromagnetic field	IEC/EN 61000-4-3	\$	
electrical fast transient/burst	IEC/EN 61000-4-4	level 4 (4 kV / 5 kHz)	
surge	IEC/EN 61000-4-5 L-L level 3 (2 kV) /		
Surgo	120/211 01000 4 0	L-PE level 4 (4 kV)	
conducted disturbances, induced by radio-	IEC/EN 61000-4-6	level 3 (10 V)	
frequency fields	.20,21,01000 4 0		
power frequency magnetic fields	IEC/EN 61000-4-8	level 4 (30 A/m)	
voltage dips, short interruptions and voltage	IEC/EN 61000-4-11	dips: >95 % 0.5 ms / >30 % 25 ms	
variations	2,	interruptions: >95 % 250 ms	
nterference emission		IEC/EN 61000-6-3	
high-frequency radiated	IEC/CISPR 22, EN 55022	class B	
high-frequency conducted IEC/CISPR 22, EN 55022		class B	
limits for harmonic current emissions IEC/EN 61000-3-2			

Technical diagrams

Output behaviour



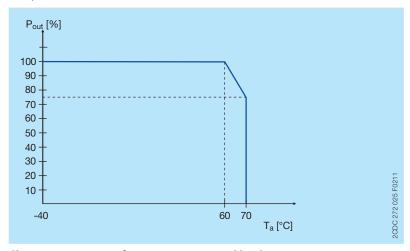
Characteristic curve of output at $T_a = 25$ °C

The switch mode power supply CP-T 24/10.0 is able to supply at 24 V DC output voltage and

- at an ambient temperature of:
 - ≤ 60 °C a continuous output current of approx. 10 A
- at ambient temperatures of:
 - 60 °C < T_a \leq 70 °C the output power has to be reduced by 2.5 % per °C temperature increase.

If the switch mode power supply is loaded with an output current > 10 A, the operating point is passing through the U/I characteristic curve shown.

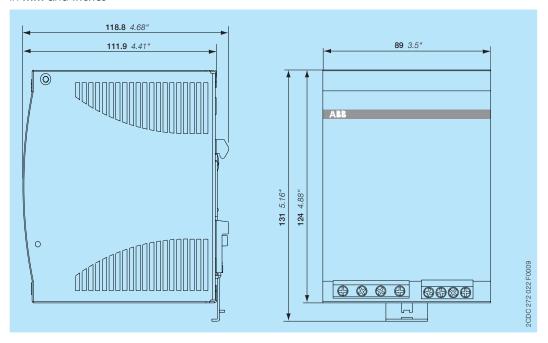
Temperature behaviour



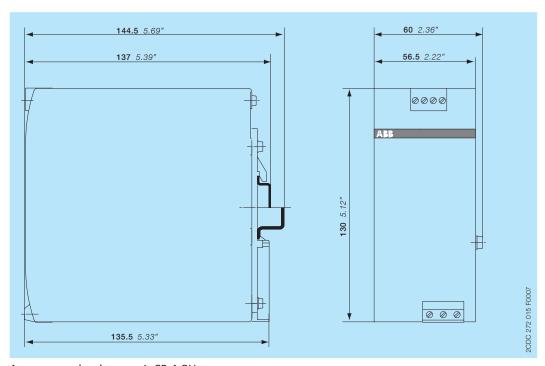
Characteristic curve of temperature at rated load

Dimensions

in mm and inches



Power supply



Accessory redundancy unit CP-A RU

Further documentation

Document title	Document type	Document number
Electronic products and relays	Technical catalogue	2CDC 110 004 C020x
Power supply units	Application manual	2CDC 114 048 M020x
Redundancy unit CP-A RU	Data sheet	2CDC 114 036 D0202

You can find the documentation on the internet at www.abb.com/lowvoltage -> Control Products -> Power Supplies

CAD system files

You can find the CAD files for CAD systems at http://abb-control-products.partcommunity.com/PARTcommunity/Portal/abb-control-products -> Low Voltage Products & Systems -> Control Products -> Power Supplies.

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You can find the address of your local sales organisation on the ABB home page http://www.abb.com/contacts -> Low Voltage Products and Systems

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