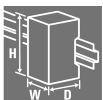
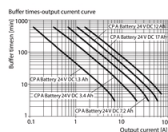


CP DC UPS 24V 20A/10A



General ordering data

Version	UPS control unit
Order No.	1370050010
Type	CP DC UPS 24V 20A/10A
GTIN (EAN)	4050118202335
Qty.	1 pc(s).

Dimensions and weights

Depth	150 mm
Depth (inches)	5.905 inch
Height	130 mm
Height (inches)	5.118 inch
Width	66 mm
Width (inches)	2.598 inch
Net weight	1,139 g

Temperatures

Storage temperature	-40 °C...85 °C
Operating temperature	-25 °C...70 °C
Humidity	5...95 %, no condensation

Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

SCIP

d6c68c9e-3e33-4fa9-920e-331473bf0422

Battery module

Parallel connection option

yes, max. 2

Rated voltage

24 V

Storage medium

1.3 Ah, 3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah,
Selectable with rotary switch**Integrated battery charger**

Battery availability test

every minute

Charging current

0.15 cA

Charging feature

IU characteristic curve

Charging voltage (temperature compensated)

27, 48 V @ 20°C

Temperature coefficient

- 48 mV / °C

Operating interfaces and control inputs

Function DIP switch

Inversion of transistor outputs, Operation without temperature probe

Output current selector switch

20 A, 10 A

Remote disconnection (Interlock)

Yes

Selector switch battery

1.3 Ah, 3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, No Battery, Service

Selector switch buffer times

0.5 min, 1 min, 3 min, 5 min, 10 min, 20 min, 30 min, 45 min, ∞, ∞ w/0

Temperature probe

NTC 100 kΩ

Input

DC current consumption

max. 200 mA (without battery), max. 0.5 A (with fully charged battery)

DC input voltage range

20...30 V DC

Input current

≤ 13A (for 10A), ≤ 23A (for 20A)

Input fuse (internal)

Yes

Max. approved input current

28 A

Rated input voltage

24 V DC

Wire connection method

Screw connection

OutputContinuous output current @ U_{Nominal}

24 A @ 45 °C, 20 A @ 60 °C, 15 A @ 70 °C

Nominal output current for U_{nom}

20 A @ 60 °C

Output current, max.	24 A
Output voltage, note	Vo = Vin - 0.2 V normal operation (Imax), Vo = Vin - 0.3 V battery supply (I max)
Overload protection	Yes
Parallel connection option	yes, max. 2, Yes, with diode module
Protection against inverse voltage	Yes
Rated output voltage	24 V DC \pm 1 %
Residual ripple, breaking spikes	< 50 mV _{PP} @ 24 V DC, I _N
Temperature coefficient	- 48 mV / °C
Temperature probe	NTC 100 k Ω
Wire connection method	Screw connection

General data

Buffer times	Depending on the connected battery
Clip-in foot	metal
Current limiting	> 120% I _N
Degree of efficiency	\geq 96% normal mode, battery is being charged, \geq 98% normal mode, battery is charged, \geq 98% buffer mode
Housing version	Metal, corrosion resistant
Humidity	5...95 %, no condensation

MTBF	According to Standard	SN 29500
	Operating time (hours), min.	1,860,000 h
	Ambient temperature	25 °C
	Input voltage	24 V
	Output power	240 W
	Duty cycle	100 %
	According to Standard	SN 29500
	Operating time (hours), min.	906,400 h
	Ambient temperature	40 °C
	Input voltage	24 V
	Output power	240 W
	Duty cycle	100 %

Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Power loss	< 10 W
Protection against reverse voltages from the load	32...34 V DC

Protection degree	IP20
Short-circuit protection	Yes
Storage medium	1.3 Ah, 3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, Selectable with rotary switch
Surge voltage category	III

EMC / shock / vibration

Interference immunity test acc. to	EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips)
Noise emission in accordance with EN55032	Class B
Shock resistance IEC 60068-2-27	30 g in all directions
Vibration resistance IEC 60068-2-6	2.3 g

Insulation coordination

Insulation voltage	1 kV DC
Pollution severity	2
Protection class	III, with no ground connection, for SELV
Surge voltage category	III
electrical isolation, input-earth	1 kV
electrical isolation, output-earth	1 kV

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204
For use with electronic equipment	Acc. to EN50178 / VDE0160
Protection against dangerous shock currents	Acc. to VDE0106-101
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Safety transformers for switch-mode power supplies	According to EN 61558-2-16

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	6
Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0.5 mm ²
Conductor cross-section, rigid , max.	16 mm ²
Conductor cross-section, rigid , min.	0.5 mm ²
Reverse polarity protection	Yes

Wire connection cross section, flexible (input), max. 16 mm²

Connection data (output)

Conductor cross-section, AWG/kcmil , max. 6
 Conductor cross-section, AWG/kcmil , min. 26
 Conductor cross-section, flexible , max. 16 mm²
 Conductor cross-section, flexible , min. 0.5 mm²
 Conductor cross-section, rigid , max. 16 mm²
 Conductor cross-section, rigid , min. 0.6 mm²
 Reverse polarity protection Yes

Connection data (signal)

Wire connection method Screw connection
 Wire cross-section, AWG/kcmil , max. 15
 Wire cross-section, AWG/kcmil , min. 30
 Wire cross-section, solid , max. 1.5 mm²
 Wire cross-section, solid , min. 0.2 mm²

Signalling

Floating contact Yes

Status indicator Three-colour LED: Battery capacity >85% green, >40% yellow, >20% red, <20% red (Flashing), Green/yellow LED: normal / buffering, Yellow/red LED: temperature alarm / alarm, Yellow/red LED: switch-off / battery fault

Status relay (max. load) Fault (alarm) (30 V AC/DC 0.1 A), Battery operation (buff.) (30 V AC/DC 0.1 A), Laden (Charg.) (30V AC/DC 0,1A)

Transistor outputs (24&...27 V DC max. load 150 mA) Battery operation (buff.), Charging, Fault (alarm)

Approbations

Certificate no. (cULus) E258476
 Institute (cULus) CULUS

Downloads

Approval/Certificate/Document of Conformity [UL 508 Certificate.pdf](#)
[UL 60950 Certificate.pdf](#)
[DNV Certificate.pdf](#)
[BV Certificate](#)
[Declaration of Conformity](#)

Engineering Data	<u>CAD data -- STEP</u> <u>Quick start guide -- QSG0009 PS- Selection Guide AC Backup Guide for AC backup for power supplies</u>
Eplan Data Portal	<u>Eplan data</u>
CADENAS eCATALOG	<u>CAX data</u>
WSCAD Universe	<u>WSCAD data</u>
User Documentation	<u>Operating instructions</u>
Catalogues	<u>Catalogues in PDF-format</u>

Classifications

ETIM 6.0	EC002850
ETIM 7.0	EC002850
ETIM 8.0	EC002850
ETIM 9.0	EC002850
ECLASS 9.0	27-04-06-92
ECLASS 9.1	27-04-92-01
ECLASS 10.0	27-04-06-92
ECLASS 11.0	27-04-06-92
ECLASS 12.0	27-04-06-92
ECLASS 13.0	27040692

Approvals

Approvals



ROHS Conform

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Order No.: 1370040010
Type: CP DC UPS 24V 40A

Version:
UPS control unit

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