

## CP DC UPS 24V 20A/10A

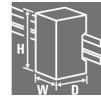
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



The UPS control unit together with the associated battery module and the power supply unit form a complete DC UPS system. In normal operation, the input voltage from the UPS control unit is connected directly to the load. In the event of a mains failure (drop of the DC input voltage) the system switches instantly to battery operation.

Once the mains supply has been restored, the system switches back to normal operation and the battery is fully recharged by the integrated charger.

Three relay outputs, as well as three additional active transistor outputs and a control input to lock battery operation, provide full remote control by means of SPS or DCS control. Numerous modes of operation and an easy-to-use status display provide rapid fault diagnosis and optimum customisation to the application.

### General ordering data

Version	UPS control unit
Order No.	<a href="#">1370050010</a>
Type	CP DC UPS 24V 20A/10A
GTIN (EAN)	4050118202335
Qty.	1 pc(s).

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## Technical data

### 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
Operating temperature, min.	-25 °C	Operating temperature, max.	70 °C
Humidity	5...95 %, no condensation		

### 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		

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### Output

Continuous output current @ $U_{\text{Nominal}}$	24 A @ 45 °C, 20 A @ 60 °C, 15 A @ 70 °C	Nominal output current for $U_{\text{nom}}$	20 A @ 60 °C
Output current, max.	24 A	Output voltage, note	$V_o = V_{in} - 0.2 \text{ V}$ normal operation ( $I_{\text{max}}$ ), $V_o = V_{in} - 0.3 \text{ V}$ battery supply ( $I_{\text{max}}$ )
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 <sub>PP</sub> @ 24 V DC, $I_N$	Temperature coefficient	- 48 mV / °C
Temperature probe	NTC 100 k $\Omega$	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
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

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### 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 <sup>2</sup>	Conductor cross-section, rigid , max.	16 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>	Reverse polarity protection	Yes
Wire connection cross section, flexible (input), max.	16 mm <sup>2</sup>		

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	6	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	16 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid , max.	16 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.6 mm <sup>2</sup>
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 mm <sup>2</sup>
Wire cross-section, solid , min.	0.2 mm <sup>2</sup>		

### 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
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## 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

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	d6c68c9e-3e33-4fa9-920e-331473bf0422

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E258476

## Downloads

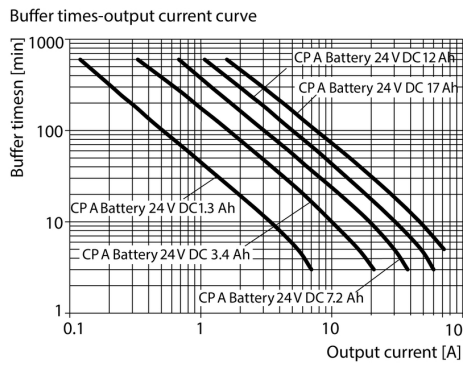
Approval/Certificate/Document of Conformity	<a href="#">UL 508 Certificate.pdf</a> <a href="#">UL 60950 Certificate.pdf</a> <a href="#">DNV Certificate.pdf</a> <a href="#">BV Certificate</a> <a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a> <a href="#">Quick start guide – QSG0009 PS-Selection Guide AC Backup Guide for AC backup for power supplies</a>
User Documentation	<a href="#">Operating instructions</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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**Drawings**



Buffer Time