

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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

UPS control unit	
<u>1370040010</u>	
CP DC UPS 24V 40A	
4050118202342	
1 ST	
	1370040010 CP DC UPS 24V 40A 4050118202342

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Technical data

Approvals	OCE (UL US (Type TÜV Appro	wad
	VERTYAL	ISTED NOTE ON THE PARTY OF THE	7700
ROHS	Conform		
UL File Number Search	<u>UL Website</u>		
Certificate no. (cULus)	E258476		
Dimensions and weights			
Depth	150 mm	Depth (inches)	5.9055 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	66 mm	Width (inches)	2.5984 inch
Net weight	1051.8 g		
Temperatures			
Storage temperature	-40 °C85 °C	Operating temperature	-25 °C70 °C
Humidity	595 %, no condensation	Operating temperature	-23 670 6
Environmental Product C	Compliance		
RoHS Compliance Status	Compliant		
REACH SVHC SCIP	Lead 7439-92-1 d6c68c9e-3e33-4fa9-920e-	221472560422	
Battery module	40000000 0000 4100 0200	001470510422	
battery module			
Rated voltage	24 V	Storage medium	3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, Selectable with rotary switch
Parallel connection option	yes, max. 2		
Integrated battery charg	er		
.	40. 1/ /00		07.40.140.0000
Temperature coefficient	- 48 mV / °C	Charging voltage (temperature compensated)	27, 48 V @ 20°C
Charging current	0.15 cA	Battery availability test	every minute
Charging feature	IU characteristic curve		
Operating interfaces and	l control inputs		
Francisco DID accidedo	larramian afternation	Calantan socitals botton times	O.F. main. 1 main. 2 main. F
Function DIP switch	Inversion of transistor outputs, Operation without temperature probe	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	Remote disconnection (Interlock)	Yes
Selector switch battery	3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, No Battery, Service		
Input			
Rated input voltage	24 V DC	Wire connection method	Screw connection
Input fuse (internal)	Yes	DC current consumption	max. 200 mA (without
, , , , ,		·	battery), max. 0.5 A (with fully charged battery)

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Technical data

DC input voltage range	2030 V DC	Input current	≤ 43 A
Max. approved input current	52 A		

Output

Rated output voltage	24 V DC ± 1 %	Residual ripple, breaking spikes	< 50 mVPP @ 24 V DC, IN
Parallel connection option	yes, max. 2, Yes, with diode module	Overload protection	Yes
Output current, max.	48 A	Wire connection method	Screw connection
Output voltage, note	Vo = Vin - 0.2 V normal operation (Imax), Vo = Vin - 0.3 V battery supply (I max)	Nominal output current for Unom	40 A @ 60 °C
Temperature coefficient	- 48 mV / °C	Temperature probe	NTC 100 kΩ
Protection against inverse voltage	Yes	Continuous output current @ UNominal	48 A @ 45 °C, 24 A @ 70 °C, 40 A @ 60 °C

General data

Degree of efficiency	≥ 96% normal mode, battery is being charged, ≥ 98% normal mode, battery is charged, ≥ 98% buffer mode	Humidity	595 %, no condensation
Protection degree	IP20	Surge voltage category	III
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.	Housing version	Metal, corrosion resistant
Protection against reverse voltages from the load	n 3234 V DC	Current limiting	> 120% IN
Power loss	< 10 W	Storage medium	3.4 Ah, 7.2 Ah, 12 Ah, 17 Ah, Selectable with rotary switch
Clip-in foot	metal	Short-circuit protection	Yes
Buffer times	Depending on the connected battery		

EMC / shock / vibration

Shock resistance IEC 60068-2-27	30 g in all directions	Noise emission in accordance with EN55032	Class B
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)	Vibration resistance IEC 60068-2-6	2.3 g

Insulation coordination

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





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Technical data

Electrical safety (applied stan	dards)		
For use with electronic equipment	Acc. to EN50178 / VDE0160	Electrical machine equipment	Acc. to EN60204
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)			
	V		2
Reverse polarity protection	Yes	Conductor cross-section, AWG/kcmil , max.	6
Conductor cross-section, AWG/kcmil , min.	26	Wire connection cross section, flexible (input), max.	16 mm²
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	Tightening torque, min.	1.2 Nm
Tightening torque, max.	1.5 Nm		
Connection data (output)			
	V	0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0
Reverse polarity protection	Yes	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 mm ²	Conductor cross-section, rigid, max.	16 mm ²
Conductor cross-section, rigid , min.	0.6 mm²	Tightening torque, min.	1.2 Nm
Tightening torque, max.	1.5 Nm		
Connection data (signal)			
Wire connection cross-section, flexible	1.5 mm ²	Wire connection method	Screw connection
(signal), max.			
Wire cross-section, AWG/kcmil, max.	15	Wire cross-section, solid , min.	0.2 mm ²
Wire cross-section, solid, max.	1.5 mm ²	Wire connection cross-section, flexible (signal), min.	0.2 mm ²
Wire cross-section, AWG/kcmil, min.	30		
Signalling			
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	Floating contact	Yes
Transistor outputs (24&27 V DC max. load 150 mA)	Battery operation (buff.), Charging, Fault (alarm)	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)
Classifications			
ETIM 6.0	EC002850	ETIM 7.0	EC002850
LINVI U.U	L0002030	LINVI 1.0	EC002850

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Technical data

ETIM 10.0	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	27-04-06-92	ECLASS 14.0	27-04-06-92
ECLASS 15.0	27-04-06-92		

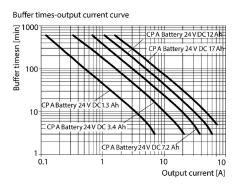


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Drawings



Buffer Time



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Accessories

W-Series



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

Туре	WEW 35/1 V0 GF SW	Version
Order No.	1478990000	End bracket, black, TS 35, V-0, Wemid, Width: 12 mm, 130 °C
GTIN (EAN)	4050118286892	
Qty.	50 ST	
Туре	WEW 35/2 V0 GF SW	Version
Type Order No.	WEW 35/2 V0 GF SW 1479000000	Version End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C
	· ·	

Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

Туре	SDIS SL 0.6X3.5X100	Version
Order No.	<u>1274660000</u>	Screwdriver, Mounting tool
GTIN (EAN)	4050118072631	
Qty.	1 ST	
Туре	SDIS SL 1.0X5.5X125	Version
Type Order No.	SDIS SL 1.0X5.5X125 1274680000	Version Screwdriver, Mounting tool

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Accessories

Crosshead screwdriver, Pozidrive



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

Type
Order No.

SDIK PZ2 SL 1274740000

GTIN (EAN) Qty. 4050118073218

Version

Screwdriver, Screwdriver

Installation



Mounting accessory for Weidmüller Power Supplys.

General ordering data

Type Order No. GTIN (EAN) MTA 45 MF 1251310000

4050118042719

ty. 1 ST

Version

Electronics housings, Mounting flange

Temperature probe



External temperature probe for battery modules in combination with the Weidmüller UPS control unit.

General ordering data

Type Order No. GTIN (EAN) CP DC UPS TF05

1444480000 4050118249767

Qty. 1

Version

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Accessories

Version

Type CP DC UPS TF25
Order No. 1444540000
GTIN (EAN) 4050118249880

Qty. 1 ST