Data sheet

DURA MAX DC UPS 24V 40A

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

Version	UPS control unit, 24 V
Order No.	2934970000
Type	DURA MAX DC UPS 24V 40A
GTIN (EAN)	4099986684119
Qty.	1 items

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Technical data

Approvals

ROHS	Conform

Dimensions and weights

Depth	125 mm	Depth (inches)	4.9212 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	50 mm	Width (inches)	1.9685 inch
Net weight	695 g		

Temperatures

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

Battery module

Nominal voltage	24 V

Integrated battery charger

Temperature coefficient	- 48 mV / °C	Charging voltage (temperature compensated)	27, 48 V @ 20°C
Battery availability test	every minute	Charging feature	IU characteristic curve

Operating interfaces and control inputs

Selector switch buffer times	0.5 min, 1 min, 3 min, 10 min, 20 min, 30 min, Service	Temperature probe	NTC 100 kΩ
Remote disconnection (Interlock)	Yes	Selector switch battery	3.4 Ah, 12 Ah, 1.2 Ah, 7 Ah

Input

Rated input voltage	24 V DC	Wire connection method	PUSH IN
Input fuse (internal)	Yes	DC current consumption	<0.2 A @ no load
DC input voltage range	18...30 V DC	Input current	<40.2 A
Inrush Current Limitation	<52 A		

Output

Rated output voltage	24 V DC	Parallel connection option	yes, max. 2
Output current, max.	40 A	Wire connection method	PUSH IN
Output voltage type	DC	Temperature coefficient	- 48 mV / °C
Battery charging current	0.5 A (3.4 AH)	Temperature probe	NTC 100 kΩ
Protection against inverse voltage	Yes		

General data

Weight	700 g	Humidity	5...95 %, no condensation
Protection degree	IP20	Mounting position, installation notice	On TS 35 mounting rail, 50 mm clearance above and below for free air supply.

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Housing version	Metal, corrosion resistant	Protection against reverse voltages from the load	≤ 35 V DC
Power loss	<10 W	Storage medium	3.4 Ah, 12 Ah, Selectable with rotary switch, 1.2 Ah, 7 Ah
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, 4 g

Insulation coordination

Pollution severity	2	Insulation voltage	1 kV DC
Protection class	III		

Electrical safety (applied standards)

For use with electronic equipment	Acc. to EN50178	Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	According to EN 61558-2-16		

Connection data (input)

Reverse polarity protection	Yes	Conductor cross-section, AWG/kcmil , max.	6 AWG
Conductor cross-section, AWG/kcmil , min.	8 AWG	Wire connection cross section, flexible (input), max.	16 mm²
Conductor cross-section, flexible , min.	10 mm²	Conductor cross-section, rigid , max.	16 mm²
Conductor cross-section, rigid , min.	10 mm²		

Connection data (output)

Reverse polarity protection	Yes	Conductor cross-section, AWG/kcmil , max.	6 AWG
Conductor cross-section, AWG/kcmil , min.	8 AWG	Conductor cross-section, flexible , max.	16 mm²
Conductor cross-section, flexible , min.	10 mm²	Conductor cross-section, rigid , max.	16 mm²
Conductor cross-section, rigid , min.	10 mm²		

Connection data (signal)

Wire connection cross-section, flexible (signal), max.	1.5 mm²	Wire connection method	PUSH IN
Wire cross-section, AWG/kcmil , max.	16	Wire cross-section, solid , min.	0.2 mm²
Wire cross-section, solid , max.	1.5 mm²	Wire connection cross-section, flexible (signal), min.	0.2 mm²
Wire cross-section, AWG/kcmil , min.	25 mm²		

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Signalling

Status indicator	LED green: Normal mode, LED yellow: Alarm/ Temperature Sensor fault, LED green flashing: Buffer mode, LED red: Battery fault, LED off: no error	Floating contact	Yes

Classifications

ETIM 8.0	EC002850	ETIM 9.0	EC002850
ETIM 10.0	EC002850	ECLASS 14.0	27-04-06-92
ECLASS 15.0	27-04-06-92		