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Uninterruptible power supply - MINI-DC-UPS/12DC/4 - 2866598

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Uninterruptible power supply with integrated power supply unit, 4 A, in combination with MINI-BAT/12/DC 1.6 Ah or 2.6 Ah

Product Description

The MINI-DC-UPS provide an uninterruptible DC voltage both in case of AC power supply network and in the event of mains interferences. The wide-range input allows input voltages from 85 V AC to 264 V AC; 4 A is provided at the output with a regulated and adjustable output voltage from 10 V DC to 16 V DC. The rechargeable battery module supplies an output voltage from 13.6 V DC to 9.6 V DC in buffer mode.
A 1.6 Ah or a 2.6 Ah rechargeable battery module is optionally used depending on the required buffer time. The buffer time varies depending on the load current.



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 418522
Weight per Piece (excluding packing)	491.2 g
Custom tariff number	85371091
Country of origin	China

Technical data

Dimensions

Width	67.5 mm
Height	99 mm
Depth	107 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage range	100 V AC ... 240 V AC

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Technical data

Input data

AC input voltage range	85 V AC ... 264 V AC
Input voltage range DC	100 V DC ... 350 V DC (UL508: 100...250 V DC)
Buffer time	Can be set to: 0.5 min; 1 min; 2 min; 3 min; 5 min; 10 min; 15 min; 20 min; 30 min; permanent
Current consumption	0.65 A (230 V AC)
	1.35 A (120 V AC)
Inrush current limiting/I²t	< 1.1 A^2s
Power failure bypass	see diagram
Typical response time	100 ms
Power factor (cos phi)	approx. 0.5
Protective circuit	Varistor
Input fuse, integrated	3.15 A (slow-blow, internal)

Output data

Nominal output voltage	12 V DC
Setting range of the output voltage (U_{Set})	10 V DC ... 16 V DC (AC input voltage available, AC input voltage not available: Output voltage depending on the battery voltage: 13.6 V DC ... 9.6 V DC)
Nennausgangsstrom (I_N)	4 A
Derating	60 °C ... 70 °C (2.5%/K)
Output current limit	max. 7 A
Max. capacitive load	Unlimited
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
Power loss nominal load max.	10.5 W
Maximum power dissipation in no-load condition	3.8 W
Power dissipation battery operation	2.9 W
Efficiency	> 82 %
Residual ripple	< 50 mV_{PP}
Peak switching voltages nominal load	< 100 mV_{PP}
Connection in parallel	No
Surge protection against internal surge voltages	< 35 V DC
Feedback resistance	35 V DC

General

IQ technology	No
Net weight	0.45 kg
Memory medium	External, rechargeable battery 1.6 Ah / 2.6 Ah
Insulation voltage input/output	4 kV (type test)
	2 kV (routine test)
Protection class	II (in closed control cabinet)
	> 728000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715

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Technical data

General

Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm

Connection data, input

Connection method	Pluggable COMBICON screw connections,
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	8 mm
Screw thread	M3

Connection data, output

Connection method	Pluggable COMBICON screw connections,
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	8 mm
Screw thread	M3

Connection data for signaling

Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Screw thread	M3

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Shock	30g in each direction, according to IEC 60068-2-27
Noise emission	EN 55011 (EN 55022)
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-6
Standard – Electrical equipment of machines	EN 60204-1

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Standards and Regulations

Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	EN 60950-1 (SELV)
	EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment	EN 50178
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950
	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Rail applications	EN 50121-4

Classifications

eCl@ss

eCl@ss 4.0	27040603
eCl@ss 4.1	27040603
eCl@ss 5.0	27040603
eCl@ss 5.1	27040603
eCl@ss 6.0	27040603
eCl@ss 7.0	27040603
eCl@ss 8.0	27040603

ETIM

ETIM 2.0	EC000382
ETIM 3.0	EC000382
ETIM 4.0	EC000382
ETIM 5.0	EC000382

UNSPSC

UNSPSC 6.01	30211510
UNSPSC 7.0901	39121011
UNSPSC 11	39121011
UNSPSC 12.01	39121011
UNSPSC 13.2	39121011

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Approvals

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Approvals

UL Recognized / UL Listed / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized

UL Listed

cUL Recognized

EAC

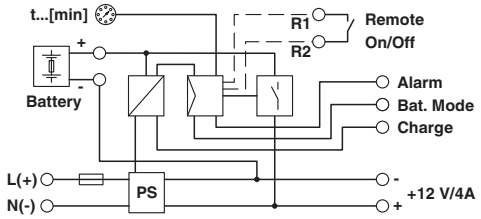
EAC

cULus Recognized

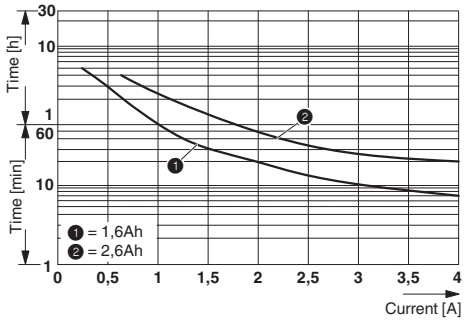
Drawings

Uninterruptible power supply - MINI-DC-UPS/12DC/4 - 2866598

Block diagram



Diagram



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