

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 UPS modules with integrated power supply are particularly space-saving: UPS module and power supply in one housing. Only one energy storage is required to complete the UPS system.

Energy storage with lead AGM technology enables buffer times of up to 2 hours under nominal load for output voltages of 24 V DC or 12 V DC.

Your advantages

- High operational reliability – comprehensive signaling and temperature-dependent battery charging
- Fast installation – minimal wiring effort with COMBICON connectors for easy connection



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356418522
Weight per Piece (excluding packing)	0.491 kg
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

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Technical data

Ambient conditions

Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2

Input data

Nominal input voltage range	100 V AC ... 240 V AC
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/I ² t	< 1.1 A ² s
Mains buffering time	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)
Nominal output current (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 voltage resistance	35 V DC

General

IQ technology	no
Net weight	0.45 kg
Memory medium	External, rechargeable battery 1.6 Ah / 2.6 Ah

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Technical data

General

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
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm

Connection data, input

Connection method	Pluggable COMBICON screw connections
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Screw thread	M3

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55011 (EN 55022)
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL

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Standards and Regulations

Standards/regulations	EN 61000-4-2
Contact discharge	6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 2 GHz
Test field strength	10 V/m
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-6-3
	EN 61000-4-6
Frequency range	10 kHz ... 80 MHz
Voltage	10 V
Standards/regulations	EN 61000-4-11
Low Voltage Directive	Conformance with LV directive 2006/95/EC
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 60950-1
	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
	15 Hz ... 150 Hz, 2.3g, 90 min.
Rail applications	EN 50121-4

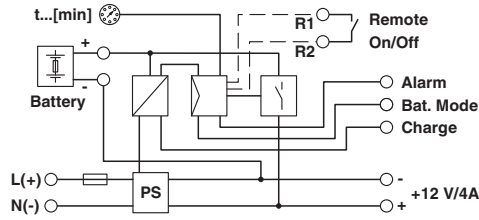
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

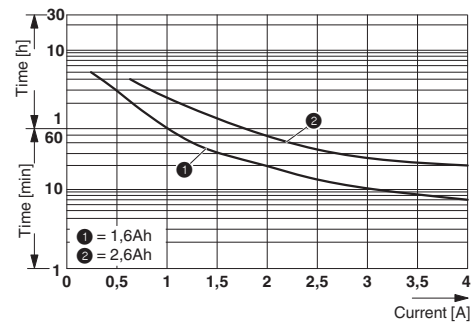
Drawings

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Block diagram



Diagram



Classifications

eCl@ss

eCl@ss 4.0	27040603
eCl@ss 4.1	27040603
eCl@ss 5.0	27040603
eCl@ss 5.1	27040600
eCl@ss 6.0	27040600
eCl@ss 7.0	27040603
eCl@ss 8.0	27040603
eCl@ss 9.0	27040705

ETIM

ETIM 2.0	EC000382
ETIM 3.0	EC000382
ETIM 4.0	EC000382
ETIM 5.0	EC000382
ETIM 6.0	EC000382
ETIM 7.0	EC000382

UNSPSC

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

Approvals

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

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Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
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EAC			EAC-Zulassung
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EAC			RU C-DE.A*30.B.01082
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cULus Recognized			
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Accessories

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Battery unit

Energy storage - MINI-BAT/12DC/1.6AH - 2866572



Energy storage device, lead AGM, VRLA technology, 12 V DC, 1.6 Ah.

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

Accessories

Energy storage - MINI-BAT/12DC/2.6AH - 2866569



Energy storage device, lead AGM, VRLA technology, 12 V DC, 2.6 Ah.
