

## Uninterruptible power supply - MINI-DC-UPS/24DC/2 - 2866640

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Uninterruptible power supply with integrated power supply unit, 2 A, in combination with MINI-BAT/24/DC 0.8 AH or 1.3 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.

### Why buy this product

- ✓ 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 STK
GTIN	 4 046356 113533
GTIN	4046356113533
Weight per Piece (excluding packing)	500.000 g
Custom tariff number	85371091
Country of origin	China

### Technical data

#### Dimensions

Width	67.5 mm
Height	99 mm
Depth	107 mm

#### Ambient conditions

# Uninterruptible power supply - MINI-DC-UPS/24DC/2 - 2866640

## Technical data

### 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 ... 85 °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
AC input voltage range	85 V AC ... 264 V AC
Input voltage range DC	100 V DC ... 350 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	0.85 A (230 V AC) 1.5 A (120 V AC)
Inrush current limiting/I <sup>2</sup> t	< 1.1 A <sup>2</sup> s
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	24 V DC
Setting range of the output voltage (U <sub>Set</sub> )	22.5 V DC ... 29.5 V DC (normal mode; in the buffer mode, dependent on a battery voltage of 27.9 V DC ... 19.2 V DC)
Nominal output current (I <sub>N</sub> )	2 A
Derating	60 °C ... 70 °C (2.5%/K)
Output current limit	max. 3 A
Max. capacitive load	Unlimited
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
Power loss nominal load max.	15 W
Maximum power dissipation in no-load condition	3.8 W
Efficiency	> 83 %
Residual ripple	< 50 mV <sub>PP</sub>
Peak switching voltages nominal load	< 100 mV <sub>PP</sub>
Connection in parallel	No
Surge protection against internal surge voltages	< 35 V DC
Feedback resistance	35 V DC

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## Technical data

### General

IQ technology	No
Net weight	0.45 kg
Memory medium	External, battery 0.8 Ah / 1.3 Ah
Insulation voltage input/output	4 kV (type test) 2 kV (routine test)
Protection class	II (in closed control cabinet) > 753000 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
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 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
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 <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
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 <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

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## Technical data

### Connection data for signaling

Screw thread	M3
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### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Shock	18 ms, 30g, in each space 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 61000-4-2
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 61000-4-5
Signal	2 kV (Level 3 - asymmetrical)
	1 kV (Level 3 - symmetrical)
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
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)
	15 Hz ... 150 Hz, 2.3g, 90 min.
Low Voltage Directive	Conformance with LV directive 2006/95/EC

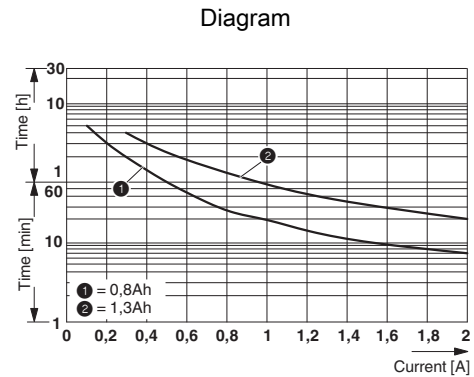
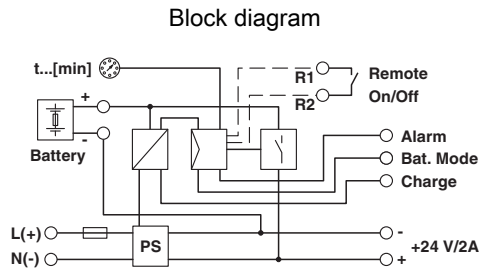
# Uninterruptible power supply - MINI-DC-UPS/24DC/2 - 2866640

## Technical data

### Standards and Regulations

Rail applications	EN 50121-4
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## Drawings



## 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
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

### UNSPSC

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

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## Classifications

### UNSPSC

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

## Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
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UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
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EAC			RU C-DE.A*30.B.01082
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EAC			EAC-Zulassung
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	
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## Uninterruptible power supply - MINI-DC-UPS/24DC/2 - 2866640

### Accessories

#### Accessories

#### Battery unit

Energy storage - MINI-BAT/24DC/0.8AH - 2866666



Energy storage device, lead AGM, VRLA technology, 24 V DC, 0.8 Ah.

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Energy storage - MINI-BAT/24DC/1.3AH - 2866417



Energy storage device, lead AGM, VRLA technology, 24 V DC, 1.3 Ah.

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