

# 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/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	12 V DC
Setting range of the output voltage (U <sub>Set</sub> )	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 <sub>N</sub> )	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 <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

### 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