

## Uninterruptible power supply - STEP-UPS/12DC/12DC/4 - 2868693

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Uninterruptible power supply with integrated battery module. The STEP-BAT/LIPO/18.5 DC/1.4 AH battery module can be re-ordered separately.

### Product Features

- UPS with integrated LiPo-based power storage



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	600.0 g
Custom tariff number	85371091
Country of origin	Germany

### Technical data

#### Dimensions

Width	108 mm
Height	90 mm
Depth	61 mm

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 45 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2

#### Input data

Nominal input voltage range	12 V DC
Input voltage range	10 V DC ... 16.5 V DC

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## Technical data

### Input data

Current consumption (charging process)	< 0.8 A (Charging (I <sub>Charge</sub> = max, I <sub>Out</sub> = 0))
Current consumption (maximum)	6 A
Current consumption (idle)	< 30 mA
Buffer period	100 min (1 A)
	50 min (2 A)
	30 min (3 A)
	23 min (4 A)
Input fuse	7 A (slow-blow, internal)
Maximum current I <sub>max</sub>	6 A

### Output data (12 V DC mains operation)

Nominal output voltage	12 V DC
Nominal output current	4 A (0°C ... 40°C)

### Output data (12 V DC battery operation)

Nominal output voltage	12 V DC
Output voltage range (depends on the input voltage)	10 V DC ... 15 V DC (U <sub>Out</sub> = U <sub>In (t-1)</sub> )
Nominal output current	4 A (0°C ... 40°C)

### General output data

Efficiency	> 97.4 % (Mains operation, with charged power storage)
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### General

IQ technology	No
Net weight	0.46 kg
Memory medium	Lithium polymer
Protection class	III
MTBF (IEC 61709, SN 29500)	> 1997000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950

### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>

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## Technical data

### Connection data, input

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	6.5 mm
Screw thread	M3

### Connection data, output

Connection method	Screw connection
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	6.5 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
Stripping length	6.5 mm
Screw thread	M3

### Charging process

Quality check of battery	Yes, every time it is charged and cyclically once a month
Deep discharge protection	< 15 V DC

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Shock	30g in each direction, according to IEC 60068-2-27
Noise immunity	EN 61000-6-2
Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-3

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## Technical data

### Standards and Regulations

	EN 61000-4-4
	EN 61000-4-6
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)

## 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	27049201

### ETIM

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

## Approvals

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#### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / IECCEB Scheme / EAC / EAC / cULus Recognized / cULus Listed

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## Approvals


Ex Approvals

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Approvals submitted


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### Approval details

UL Recognized 

UL Listed 


cUL Recognized 


cUL Listed 

IECEE CB Scheme 

EAC

EAC

cULus Recognized 

cULus Listed 

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## Drawings

Block diagram

