

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)	0.6 GRM
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	12 V DC
Input voltage range	10 V DC ... 16.5 V DC

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Technical data

Input data

Current consumption	6 A
	< 30 mA
	< 0.8 A
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_{max}	6 A

Output data

Nominal output voltage	12 V DC
Output current	4 A (0°C ... 40°C)
	5 A (0°C ... 35°C)
Derating	35 °C ... 40 °C (5%/K)
Connection in series	No

General

Net weight	0.46 kg
Memory medium	Lithium polymer
Efficiency	> 97.4 % (Mains operation, with charged power storage)
	> 92 % (Battery operation)
Protection class	III
	> 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 ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²

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Technical data

Connection data, input

Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil 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 ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	6.5 mm

Signaling

Signalization designation	Power In OK
Status display	LED
Note on status display	Static to
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3
Signalization designation	Alarm
Output name	Switching output
Output description	Transistor
Status display	LED
Note on status display	Static to
Signalization designation	Battery charge
Output name	Switching output
Output description	Transistor
Status display	LED
Note on status display	flashing

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Technical data

Signaling

Signalization designation	Battery mode
Output name	Switching output
Output description	Transistor
Type of signaling	LED, active transistor switching output
Status display	LED
Note on status display	Static to

Charging process

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

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 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


Approvals


UL Recognized / UL Listed / cUL Recognized / cUL Listed / IECCE CB Scheme / cUL Listed / cULus Recognized / cULus Listed / cULus Listed / cULus Listed / null / null / null / null


Ex Approvals


Approvals submitted


Approval details

UL Recognized 


UL Listed 

cUL Recognized 

cUL Listed 

IECEE CB Scheme 

cUL Listed 

cULus Recognized 

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Approvals

cULus Listed

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Accessories

Accessories

Battery unit

Battery - STEP-BAT/LIPO/18.5DC/1.4AH - 2320364



Replacement battery module, lithium polymer, 18.5 V DC, 1.4 Ah.

Power supply

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Accessories

Power supply unit - STEP-PS/ 1AC/12DC/5 - 2868583



Primary-switched STEP POWER power supply for DIN rail mounting, input: 1-phase, output: 12 V DC/5 A

Drawings

Block diagram

