

Uninterruptible power supply - STEP-UPS/24DC/24DC/3 - 2868703

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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 PCE
GTIN	 4 046356 519939
Custom tariff number	85044082
Country of origin	GERMANY

Technical data

Dimensions

Width	108 mm
Height	90 mm
Depth	61 mm

Input data

Nominal input voltage	24 V DC
Input voltage range DC	22.5 V DC ... 29.5 V DC
Current consumption	4.7 A
Current consumption	< 30 mA
Current consumption	< 0.5 A
Buffer period	50 min (1 A)
Buffer period	25 min (2 A)

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Technical data

Input data

Buffer period	17 min (3 A)
Input fuse	7 A (slow-blow, internal)

Output data

Nominal output voltage	24 V DC
Output current	3 A (0°C ... 40°C)
Output current	4 A (0°C ... 35°C)
Derating	35 °C ... 40 °C (5%/K)
Connection in series	No

General data

Net weight	0.45 kg
Memory medium	Lithium polymer
Efficiency	> 98 % (Mains operation, with charged power storage)
Efficiency	> 95 % (Battery operation)
Degree of protection	IP20
Protection class	III
MTBF (IEC 61709, SN 29500)	> 1401000 h
Ambient temperature (operation)	0 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 45 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, no condensation)
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
Noise immunity	EN 61000-6-2
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 approvals	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
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

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Technical data

Connection data, input

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
Signalization designation	Battery mode
Output name	Switching output

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Technical data

Signaling

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

ETIM

ETIM 4.0	EC000382
ETIM 5.0	EC000382

UNSPSC

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

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

Approvals

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


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Approvals

Ex Approvals

Approvals submitted


Approval details


UL Recognized 

UL Listed 

cUL Recognized 

cUL Listed 

IECEE CB Scheme 

cULus Recognized 

cULus Listed 

Accessories

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Accessories

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



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

Power supply unit - STEP-PS/ 1AC/24DC/4.2 - 2868664



DIN rail power supply unit 24 V DC/4.2 A, primary switched-mode, 1-phase.

Drawings

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Block diagram

