

Power supply unit - STEP-B-PS-100-240AC/24DC/1.5



2938905

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Primary switched-mode power supply unit, low-profile design, output: 24 V DC / 1.5 A



Product Description

STEP POWER is the clever solution in an extraordinarily low profile design. With a depth of 58 mm, the power supply unit fits in every small distribution board and has enough space even in narrow control panels. With a controlled output voltage of 24 V DC an output current of 1.5 A is available. The POWER BOOST of 100%, which suits every load, is especially clever.

The high operational reliability is thus dependably guaranteed in complex global networks as well. STEP POWER also functions in applications where static voltage dips, transient failures of the supply voltage or phase failure are to be expected.

Generously dimensioned capacitors guarantee a mains buffering of more than 20 ms under full load.

Commercial Data

Item number	2938905
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C14
Product Key	CMPS13
GTIN	4017918936280
Weight per Piece (including packing)	255.6 g
Weight per Piece (excluding packing)	200 g
Customs tariff number	85044081
Country of origin	CN

Technical Data

Input data

AC operation

Nominal input voltage range	100 V AC ... 240 V AC (wide-range input)
Input voltage range	120 V DC ... 350 V DC (at 95 V DC ... 110 V DC, 20 % derating)
Input voltage range DC	120 V DC ... 350 V DC (at 95 V DC ... 110 V DC, 20 % derating)
Inrush current	< 25 A (0.8 A ² s)
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Mains buffering time	> 20 ms
Current consumption	0.4 A (max. 0.8 A)
Protective circuit	Surge protection; Varistor
Input fuse	1.25 A (device protection)

Output data

Efficiency	> 80 %
Number of outputs	1
Nominal output voltage	24 V DC ± 5 % (with convection cooling)
Nominal output current (I_N)	1.5 A (up to 55 °C)
Residual ripple	200 mV _{PP} (Peak switching voltages 20 MHz)
Maximum no-load power dissipation	< 2 W
Power loss nominal load max.	< 8 W
Connection in parallel	yes, for assembling redundant systems and increasing efficiency

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 flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	6.5 mm

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 flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24

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Conductor cross section AWG max.	14
Stripping length	6.5 mm

Electrical properties

Insulation voltage input/output	4 kV AC (type test)
	3 kV AC (routine test)

Product properties

Product type	Power supply
MTBF (IEC 61709, SN 29500)	> 500000 h

Dimensions

Width	71 mm
Height	90 mm
Depth	57.8 mm

Mounting

Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
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Material specifications

Type of housing	Plastic PPE+PS GF 10 FR, color green
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

Standards and regulations

Standard - Electrical safety	EN 60950/VDE 0805-1
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-101

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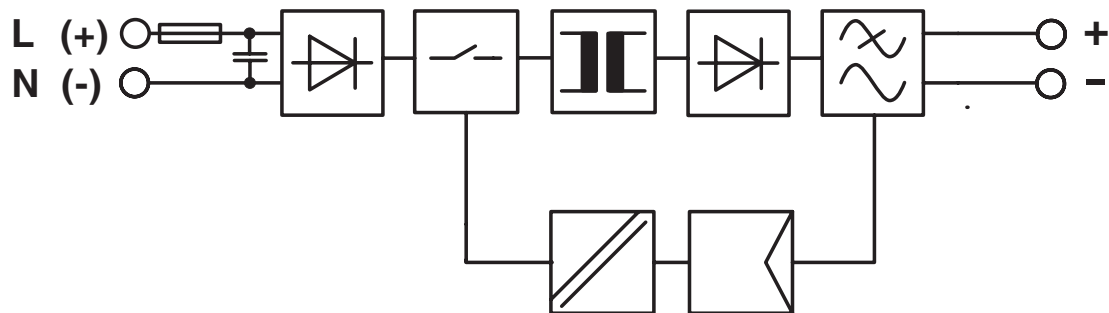


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Drawings

Block diagram



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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com