

Power supply unit - STEP-PS-100-240AC/15DC/2.4 - 2938934

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DIN rail power supply unit 15 V DC/2.4 A, primary-switched mode, low-profile design



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	264.1 GRM
Custom tariff number	85044094
Country of origin	China

Technical data

Dimensions

Width	71 mm
Height	90 mm
Depth	55 mm

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)

Input data

Input voltage range	85 V AC ... 264 V AC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Current consumption	0.8 A (120 V AC)
	0.4 A (230 V AC)

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Input data

Nominal power consumption	36 W
Inrush surge current	< 25 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 100 ms (230 V AC)
Input fuse	1.25 A (Normal blow, internal)

Output data

Nominal output voltage	15 V DC $\pm 1\%$
Output current	2.4 A (up to 55°C)
	approx. 7 A (maximum output current I_{max})
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	No
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 3 % (change in load, dynamic 10 % ... 90 %)
	< 0.1 % (change in input voltage $\pm 10\%$)
Residual ripple	< 40 mV _{PP}
Peak switching voltages nominal load	< 50 mV _{PP} (20 MHz)
Maximum power dissipation NO-Load	< 2 W
Power loss nominal load max.	< 8 W

General

Net weight	0.2 kg
Efficiency	> 80 %
Insulation voltage input/output	3 kV (routine test)
	4 kV (type test)
MTBF (IEC 61709, SN 29500)	> 500000 h
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 0 mm horizontally, 30 mm vertically
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
	EN 50178 (PELV)
Standard - Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010
Standard - Limitation of mains harmonic currents	EN 61000-3-2

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General

UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
Surge voltage category	III

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	14
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	14
Stripping length	6.5 mm

Signaling

Output name	POWER
Status display	Green LED
Output name	OVERLOAD
Status display	LED red

Classifications

eCl@ss

eCl@ss 4.0	27250202
eCl@ss 4.1	27250202
eCl@ss 5.0	27143114
eCl@ss 5.1	27143114
eCl@ss 6.0	27143114

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Classifications

ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

Drawings

Block diagram

