

## 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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## Technical data

### 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 <sub>PP</sub>
Peak switching voltages nominal load	< 50 mV <sub>PP</sub> (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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## Technical data

### 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 <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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 <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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

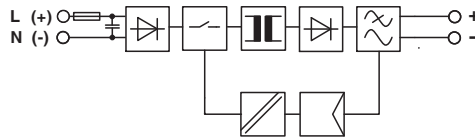
ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599

### UNSPSC

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

## Drawings

Block diagram



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