

# STEP-PS-100-240AC/ 5DC/4

Order No.: 2938918



DIN rail power supply unit 5 V DC/4 A, primary switched-mode, low-profile design

Commercial data	
EAN	4017918892371
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	0.2644 KG
Catalog page information	Page 508 (IF-2007)

### Product notes

WEEE/RoHS-compliant since:  
12/28/2006



## Technical data

### Input data

Nominal input voltage	100 V AC ... 240 V AC
AC input voltage range	85 V AC ... 264 V AC
AC frequency range	45 Hz ... 65 Hz
DC frequency range	0 Hz

Current consumption	Approx. 0.8 A (120 V AC)
	0.4 A (230 V AC)
Nominal power consumption	20 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)
Recommended backup fuse	16 A (Characteristic C)
<b>Output data</b>	
Nominal output voltage	5 V DC $\pm$ 1%
Output current	4 A (up to 55°C)
	Approx. 11 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 mVPP
Peak switching voltages nominal load	< 50 mVPP (20 MHz)
Maximum power dissipation idling	2 W
Power loss nominal load max.	8 W
<b>General data</b>	
Width	71 mm
Height	90 mm
Depth	55 mm
Weight	0.2 kg
Efficiency	> 70 %
Insulation voltage input/output	3 kV (routine test)
	4 kV (type test)
Degree of protection	IP20
Class of protection	II (in an enclosed control cabinet)
MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °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: Horizontal 0 cm, vertical 3 cm
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Standard – Safety transformers for switched-mode power supply units	EN 61558-2-17
Standard - Electrical safety	EN 60950/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
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
Surge voltage category	III

**Connection data, input**

Type of connection	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**

Type of connection	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
<b>Signaling</b>	
Output name	POWER
Status display	LED green
Output name	OVERLOAD
Status display	LED red

**Certificates / Approvals**



Certification CUL, CUL Listed, GOST, UL, UL Listed

**Drawings**

Block diagram

