

MINI-PS-100-240AC/10-15DC/2

Order No.: 2938756



Power supply unit, primary switched-mode, narrow design, output: 10-15 V DC/2 A

Commercial data	
EAN	4017918925192
Pack	1 Pcs.
Customs tariff	85044040
Weight/Piece	0.2515 KG
Catalog page information	Page 505 (IF-2007)

Product notes

WEEE/RoHS-compliant since:
06/17/2006



Technical data	
Input data	
Nominal input voltage	100 V AC ... 240 V AC
AC input voltage range	85 V AC ... 264 V AC
DC input voltage range	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz

DC frequency range	0 Hz
Current consumption	Approx. 0.4 A (120 V AC)
	0.2 A (230 V AC)
	Approx. 0.4 A (for 90 V DC)
	Approx. 0.1 A (for 350 V DC)
Nominal power consumption	30 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 120 ms (230 V AC)
Input fuse	2 A (slow-blow, internal)
Recommended backup fuse	6 A
	10 A
	16 A (characteristic B)

Output data

Nominal output voltage	12 V DC \pm 1%
	10 V DC \pm 1%
	15 V DC \pm 1%
Setting range of the output voltage	10 V DC ... 15 V DC (> 12 V constant capacity)
Output current	2 A (-25°C ... 70°C)
	2.3 A (with POWER BOOST, -25°C ... 40°C permanent)
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Connection in series	No
Residual ripple	< 20 mVPP
Peak switching voltages nominal load	< 20 mVPP (20 MHz)
Maximum power dissipation idling	1 W
Power loss nominal load max.	7 W

General data

Width	45 mm
Height	99 mm
Depth	107 mm
Weight	0.25 kg
Operating voltage display	LED green
Efficiency	> 85 % (At 230 V AC and nominal values)

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 ... 70 °C (> 60°C derating)
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 5 cm
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2
Standard – Safety transformers for switched-mode power supply units	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV)
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
Standard – Equipment safety	GS (tested safety)
UL approvals	UL/C-UL listed UL 508 UL/C-UL Recognized UL 60950 UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

Connection data, input

Type of connection	Pluggable 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	7 mm
Screw thread	M3

Connection data, output

Type of connection	Pluggable 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	7 mm

Signaling

Output name	DC OK active
Status display	"DC OK" LED green

Certificates / Approvals

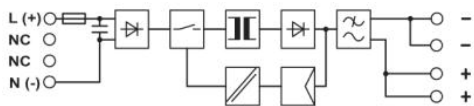


Certification CUL, CUL Listed, UL, UL Listed

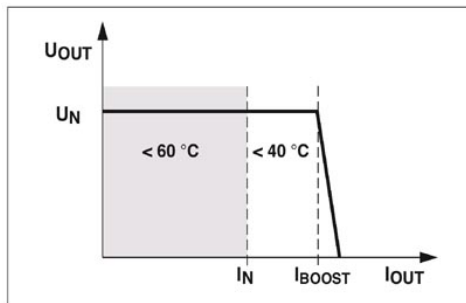
Certification Ex: CUL-EX LIS, UL-EX LIS

Drawings

Block diagram



Diagram



POWER BOOST