

MINI-PS-100-240AC/10-15DC/8

Order No.: 2866297

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2866297>DIN rail power supply unit, primary-switched mode, slim design,
output: 10-15 V DC / 8 A

Commercial data	
EAN	4017918975036
Pack	1 pcs.
Customs tariff	85044081
Weight/Piece	0.5747 KG
Catalog page information	Page 579 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
12/07/2006

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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. 1.3 A (120 V AC)
	0.8 A (230 V AC)
	Approx. 1.3 A (for 90 V DC)
	Approx. 0.4 A (for 350 V DC)
Nominal power consumption	100 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 20 ms (230 V AC)
Input fuse	3.15 A (slow-blow, internal)
Permissible backup fuse	6 A (characteristic B)
	10 A (characteristic B)
	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	8 A (-25 °C ... 60 °C)
	6.6 A (with POWER BOOST, -25°C ... 40°C permanent)
Derating	From +60°C to 70°C: 2.5% per Kelvin
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Connection in series	No
Residual ripple	< 40 mV _{PP} (20 MHz)
Peak switching voltages nominal load	< 100 mV _{PP} (20 MHz)
Maximum power dissipation idling	< 2.5 W
Power loss nominal load max.	< 12 W

General data

Width	67.5 mm
Height	99 mm
Depth	107 mm
Weight	0.4 kg
Operating voltage display	LED green
Efficiency	> 88 % (At 230 V AC and nominal values)

Insulation voltage input/output	3 kV (routine test) 3 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 guideline 2004/108/EC and for low-voltage guideline 2006/95/EC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2:2005
Standard - Safety of transformers	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
Output description	U _{OUT} > 9 V: High signal
Maximum switching voltage	≤ 12 V
Output voltage	+ 12 V (signal)
Continuous load current	≤ 20 mA
Status display	"DC OK" LED green
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
Screw thread	M3

Certificates / Approvals

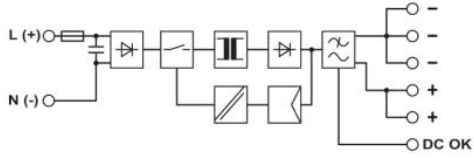


Certification CUL, CUL Listed, UL, UL Listed

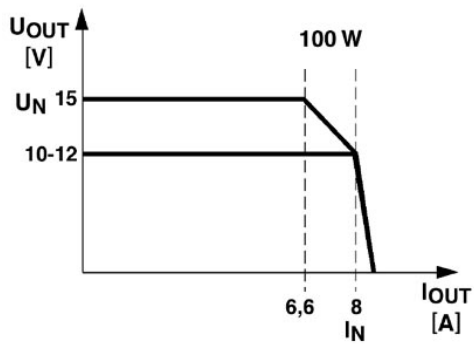
Certification Ex: CUL-EX LIS, UL-EX LIS

Diagrams/Drawings

Block diagram



Diagram



Output characteristic curve

Approbationslogos (EX-Bereich)



Address

PHOENIX CONTACT Deutschland GmbH
Flachsmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



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