

## MINI-PS-100-240AC/24DC/2

Order No.: 2938730



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DIN rail power supply unit 24 V DC/2 A, primary-switched mode, slim design

Commercial data	
EAN	4017918899554
Pack	1 pcs.
Customs tariff	85044081
Weight/Piece	0.3253 KG
Catalog page information	Page 577 (IF-2009)

### Product notes

WEEE/RoHS-compliant since:  
04/13/2006



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Technical data	
<b>Input data</b>	
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. 0.7 A (120 V AC)
	0.4 A (230 V AC)
	Approx. 0.65 A (for 90 V DC)
	Approx. 0.2 A (for 350 V DC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 35 ms (120 V AC)
	> 170 ms (230 V AC)
Input fuse	2.5 A (slow-blow, internal)
Permissible backup fuse	6 A (characteristic B)
	10 A (characteristic B)
	16 A (characteristic B)

#### Output data

Nominal output voltage	24 V DC $\pm$ 1%
Setting range of the output voltage	22.5 V DC ... 28.5 V DC (> 24 V constant capacity)
Output current	2 A (-25 °C ... 60 °C)
	2.9 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 redundancy and increased capacity
Connection in series	No
Residual ripple	< 20 mV <sub>PP</sub> (20 MHz)
Peak switching voltages nominal load	< 100 mV <sub>PP</sub> (20 MHz)
Maximum power dissipation idling	2 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	> 88 % (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 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 <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	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 <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	12
Stripping length	7 mm

### Signaling

Output name	DC OK active
Output description	U <sub>OUT</sub> > 21.5 V: High signal
Maximum switching voltage	≤ 24 V
Output voltage	+ 24 V
Continuous load current	≤ 20 mA
Status display	"DC OK" LED green
Note on status display	U <sub>OUT</sub> > 21.5 V: LED lights up
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	12
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3

### Certificates / Approvals

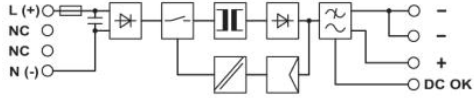


Certification CUL, CUL Listed, GOST, UL, UL Listed

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

## Diagrams/Drawings

Block diagram



Approbationslogos (EX-Bereich)



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