

MINI-PS-100-240AC/24DC/1


Order No.: 2938840



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DIN rail power supply unit 24 V DC/1 A, primary-switched mode, slim design



Commercial data	
GTIN (EAN)	4  017918 927097
sales group	H041
Pack	1 pcs.
Customs tariff	85044082
Catalog page information	Page 38 (IF-2005)

Product notes

WEEE/RoHS-compliant since:
07/10/2006



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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. 0.5 A (85 V AC)
	Approx. 0.2 A (264 V AC)
	Approx. 0.4 A (90 V DC)
	Approx. 0.1 A (350 V DC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 110 ms (230 V AC)
Input fuse	1.25 A (slow-blow, internal)

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	1 A (up to 60°C)
	1.3 A (with POWER BOOST)
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Connection in series	Yes
Residual ripple	< 100 mV _{pp}
Peak switching voltages nominal load	< 100 mV _{pp} (20 MHz)
Maximum power dissipation idling	< 1 W
Power loss nominal load max.	< 4.5 W

General data

Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Net weight	0.2 kg
Operating voltage display	Green LED
Efficiency	> 80 % (for 230 V AC and nominal values)
Insulation voltage input/output	3 kV (routine test)
	3 kV (type test)
Degree of protection	IP20
Protection class	II (in an enclosed control cabinet)
MTBF (IEC 61709, SN 29500)	> 500000 h
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	On horizontal DIN rail NS 35 in acc. with EN 60715
Assembly instructions	Can be aligned: Vertical with spacing = 5 cm, horizontal with zero spacing
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise emission	EN 50081-2
Noise immunity	EN 61000-6-2:2005
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010

Connection data, input

Connection method	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	14
Stripping length	7 mm
Screw thread	M3

Connection data, output

Connection method	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	14
Stripping length	7 mm

Signaling

Output name	Active
Output description	U _{OUT} > 21.5 V: High signal
Output voltage	+ 24 V (signal)
Continuous load current	max. 20 mA
Status display	Green LED (U _{out} > 21,5 V DC: LED permanently lit)

Certificates / Approvals



Certification

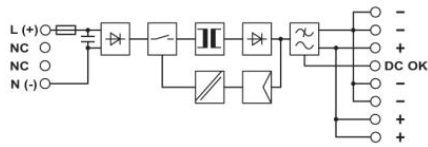
CUL, CUL Listed, UL, UL Listed

Certification Ex:

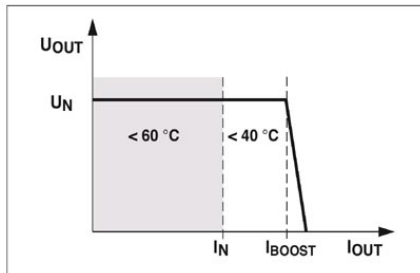
CUL-EX LIS, UL-EX LIS

Diagrams/Drawings

Block diagram



Diagram



POWER BOOST

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