

MINI-PS- 48- 60DC/24DC/1


Order No.: 2866271



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DC-DC converter, primary switched mode, slimline design, input: 48 - 60 V DC, output: 24 V DC / 1 A



Commercial data	
GTIN (EAN)	 4 017918 960919
sales group	H051
Pack	1 pcs.
Customs tariff	85044082
Catalog page information	Page 611 (IF-2011)

Product notes

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



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Technical data	
Input data	
Nominal input voltage	48 V DC ... 60 V DC
DC input voltage range	36 V DC ... 75 V DC
DC frequency range	0 Hz

Current consumption	Approx. 0.6 A (48 V DC)
	Approx. 0.5 A (60 V DC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 15 ms (48 V DC)
	> 20 ms (60 V DC)
Input fuse	3.15 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 (-25 °C ... 60 °C)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Connection in series	Yes
Residual ripple	< 40 mV _{PP}
Peak switching voltages nominal load	< 50 mV _{PP} (20 MHz)
Maximum power dissipation idling	< 1.2 W
Power loss nominal load max.	< 5 W

General data

Width	22.5 mm
Height	99 mm
Depth	107 mm
Net weight	0.2 kg
Operating voltage display	Green LED
Efficiency	> 85 % (at 60 V DC and nominal values)
Insulation voltage input/output	1 kV (routine test)
	1.5 kV (type test)
Degree of protection	IP20
Protection class	II
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)	\leq 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 2004/108/EC
Noise emission	EN 50081-2
Noise immunity	EN 61000-6-2:2005
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/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 0106-101
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

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	DC OK active
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Output description	$U_{OUT} > 21.5 \text{ V}$: High signal
Maximum switching voltage	$\leq 24 \text{ V DC}$
Output voltage	+ 24 V (signal)
Continuous load current	$\leq 20 \text{ mA}$
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	14
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3

Certificates / Approvals

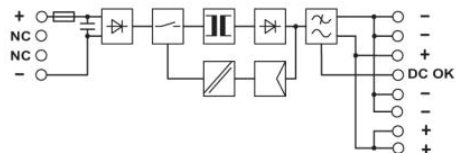


Certification CUL, CUL Listed, UL, UL Listed

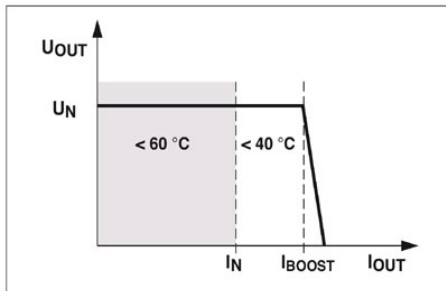
Certification Ex: CUL-EX LIS, UL-EX LIS

Diagrams/Drawings

Block diagram



Diagram



POWER BOOST

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