

DC/DC converters - MINI-PS- 48- 60DC/24DC/1 - 2866271

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Primary-switched MINI DC/DC converter for DIN rail mounting, input: 1-phase, output: 24 V DC/1 A

Product Description

MINI DC/DC converter for MCR technology.


DC/DC converters alter the voltage level, regenerate the voltage at the end of long cables or enable the creation of independent supply systems by means of electrical isolation.

Why buy this product

- Electrical isolation: for setting up independent supply systems
- Support conversion to various voltage levels
- Constant voltage: output voltage regenerated even at the end of long cables



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 960919
GTIN	4017918960919
Weight per Piece (excluding packing)	200.000 g
Custom tariff number	85044030
Country of origin	China

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	107 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)

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Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage range	48 V DC ... 60 V DC
Input voltage range	36 V DC ... 75 V DC
Frequency range DC	0 Hz
Current consumption	0.6 A (48 V DC)
	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 ±1 %
Setting range of the output voltage (U_{Set})	22.5 V DC ... 28.5 V DC (> 24 V DC, constant capacity restricted)
Nominal output current (I_N)	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}
Output power	24 W
Typical response time	< 0.5 s
Peak switching voltages nominal load	< 50 mV _{PP} (20 MHz)
Maximum power dissipation in no-load condition	< 1.2 W
Power loss nominal load max.	< 5 W

General

Net weight	0.2 kg
Operating voltage display	Green LED
Efficiency	> 85 % (at 60 V DC and nominal values)
Insulation voltage input/output	1.5 kV (type test)
	1 kV (routine test)
Protection class	II
	> 1147000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm

Connection data, input

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²