

Power module - MINI-PS- 10- 42AC/15-60DC/3 - 2320199

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The AC feed module supplies the MINI DC/DC converter with a rectified and filtered supply voltage.

Product Description


The AC power module converts the 10 V AC ... 42 V AC input voltage into a 15 V DC ... 60 V DC output voltage. The output voltage level depends on the AC input voltage. With an overall width of just 22.5 mm, the housing is particularly narrow.

Your advantages

- Enables the operation of the MINI DC/DC converters in an AC network.
- AC voltage of a transformer is rectified and filtered



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 577731
GTIN	4046356577731
Weight per Piece (excluding packing)	160.000 g
Custom tariff number	85044030
Country of origin	China
Sales Key	CMPM99

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	107 mm
Installation distance right/left	0 mm / 0 mm (≤ 70 °C)
Installation distance top/bottom	50 mm / 50 mm (≤ 70 °C)

Ambient conditions

Degree of protection	IP20
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2

Input data

Nominal input voltage	24 V AC
Nominal input voltage range	10 V AC ... 42 V AC
Input voltage range	10 V AC ... 42 V AC
AC frequency range	45 Hz ... 65 Hz
Current consumption	6.5 A
Inrush current	< 45 A (typical)
Recommended breaker for input protection	16 A (Characteristic C)

Output data

Nominal output voltage	28 V DC ±1 %
	60 V DC
Output voltage range	15 V DC ... 60 V DC
Nominal output current (I _N)	3 A (-25 °C ... 60 °C)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in series	No
Residual ripple	< 3.6 V _{PP}
Maximum power dissipation in no-load condition	< 0.04 W
Power loss nominal load max.	< 6.9 W

General

Net weight	0.16 kg
Efficiency	> 95.7 % (For 42 V AC and nominal values)
MTBF (IEC 61709, SN 29500)	> 18175000 h (40 °C)
Degree of protection	IP20
Protection class	III
Housing material	Polyamide (PA)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm

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 flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24

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Technical data

Connection data, input

Conductor cross section AWG max.	12
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 flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

Standards

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)
Rail applications	EN 50121-4

Conformance/approvals

UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950-1

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electrostatic discharge	EN 61000-4-2
Electromagnetic HF field	EN 61000-4-3
Fast transients (burst)	EN 61000-4-4
Surge voltage load (surge)	EN 61000-4-5

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"



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