

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

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	107 mm
Installation distance right/left	0 mm / 0 mm ($\leq 70\text{ }^{\circ}\text{C}$)
Installation distance top/bottom	50 mm / 50 mm ($\leq 70\text{ }^{\circ}\text{C}$)

Ambient conditions

Degree of protection	IP20
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)	$\leq 95\text{ }%$ (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)

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Technical data

Ambient conditions

Degree of pollution	2
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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 $\pm 1\%$
	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}
Output power	72 W
Maximum no-load power dissipation	< 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
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

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Technical data

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

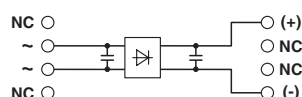
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electrostatic discharge	EN 61000-4-2
Electromagnetic HF field	EN 61000-4-3
Fast transients (burst)	EN 61000-4-4
Surge voltage load (surge)	EN 61000-4-5

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Drawings

Block diagram



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Classifications

eCl@ss

eCl@ss 10.0.1	27210901
eCl@ss 11.0	27210901
eCl@ss 4.0	27040700
eCl@ss 4.1	27040700
eCl@ss 5.0	27049000
eCl@ss 5.1	27210900
eCl@ss 6.0	27210900
eCl@ss 7.0	27210990
eCl@ss 9.0	27210901

ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 6.0	EC002046
ETIM 7.0	EC002046

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004
UNSPSC 18.0	39121041
UNSPSC 19.0	39121041
UNSPSC 20.0	39121041
UNSPSC 21.0	39121000

Approvals

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UL Listed / UL Recognized / cUL Recognized / IECEx CB Scheme / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

Approval details

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Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
IECEE CB Scheme		http://www.iecee.org/	DK-2825-M1
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
EAC			EAC-Zulassung
EAC			RU S- DE.BL08.W.00764
cULus Recognized			
cULus Listed			

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