

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

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To supply MINI-DC/DC converters, the AC voltage of a transformer is rectified and filtered.

### Product description

The AC/DC converter converts the AC voltage from 10 V DC ... 42 V AC into an adjustable, regulated, and electrically isolated 15 V DC ... 60 V DC output voltage. With a design width of 22.5 mm, the housing is particularly narrow.

### Why buy this product

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



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	221.5 GRM
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)
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

Input voltage range	10 V AC ... 42 V AC
AC frequency range	45 Hz ... 65 Hz

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## Technical data

### Input data

Current consumption	6.5 A
Inrush surge current	< 45 A (typical)

### Output data

Nominal output voltage	24 V DC $\pm$ 1 %
	60 V DC
Output voltage range	15 V DC ... 60 V DC
Output current	3 A (-25 °C ... 60 °C)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in series	No
Residual ripple	< 3.6 V <sub>pp</sub>
Maximum power dissipation NO-Load	< 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)
Insulation voltage input/output	1.5 kV (type test) 1 kV (routine test)
Protection class	III
MTBF (IEC 61709, SN 29500)	> 18175000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 50081-2
Low Voltage Directive	Conformance with LV directive 2006/95/EC
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)
UL approvals	UL/C-UL listed UL 508 UL/C-UL Recognized UL 60950

### Connection data, input

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil 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 <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm

## Classifications

### eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27049002
eCl@ss 5.1	27049002
eCl@ss 6.0	27049002
eCl@ss 7.0	27049002
eCl@ss 8.0	27049002

### ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002046

### UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

## Approvals

### Approvals

#### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / IEC CB Scheme / cUL Listed / cULus Recognized / cULus Listed / cULus Listed / cULus Listed / null / null / null / null

#### Ex Approvals

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

## Approvals

Approvals submitted

### Approval details

UL Recognized

UL Listed

cUL Recognized

cUL Listed

IECEE CB Scheme

cUL Listed

cULus Recognized


cULus Listed

cULus Listed

cULus Listed

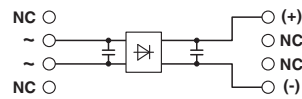
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## Approvals



## Drawings

Block diagram



# AMEYA360

## Components Supply Platform

### Authorized Distribution Brand :



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