

# Power supply unit - MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983

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Primary-switched MINI POWER supply for DIN rail mounting, input: 1-phase, output: 24 V DC/1.5 A

## Product Description

MINI POWER power supplies for MCR technology


In measurement and control technology (MCR), modular electronics housing has become the industry standard. MINI POWER is the power supply unit to go with it. The devices are flexible, thanks to special voltages and special versions.

## Why buy this product

- ✓ Easy-maintenance connection technology thanks to keyed COMBICON connectors
- ✓ For supplying the supply voltage via the foot element (DIN rail connector) where AC voltages are available
- ✓ 100 ... 240 V AC nominal input voltage range
- ✓ 24 V DC output voltage
- ✓ For up to 60 MINI Analog modules
- ✓ For up to 1.5 A, secondary
- ✓ Status and error indication via diagnostic LEDs



## Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 960650
GTIN	4017918960650
Weight per Piece (excluding packing)	250.000 g
Custom tariff number	85044030
Country of origin	China

## Technical data

### Dimensions

Width	35 mm
Height	99 mm
Depth	95 mm

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## Technical data

### 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)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

### Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
AC frequency range	45 Hz ... 65 Hz
Current consumption	0.75 A (120 V AC) 0.45 A (230 V AC)
Inrush surge current	< 15 A (0.6 A <sup>2</sup> s)
Power failure bypass	> 35 ms (120 V AC) > 150 ms (230 V AC)
Input fuse	3.15 A (slow-blow, internal)
Choice of suitable circuit breakers	6 A ... 16 A (Characteristics B, C, D, K)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

### Output data

Nominal output voltage	24 V DC ±1 %
Nominal output current (I <sub>N</sub> )	1.5 A (-25 °C ... 60 °C)
POWER BOOST (I <sub>Boost</sub> )	2 A (-25 °C ... 40 °C permanent )
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity. Maximum of 2 devices for redundancy on DIN rail connector.
Connection in series	No
Max. capacitive load	Unlimited
Control deviation	< 1 % (change in load, static 10 % ... 90 %) < 3 % (change in load, dynamic 10 % ... 90 %) < 0.1 % (change in input voltage ±10 %)
Residual ripple	< 40 mV <sub>PP</sub> (20 MHz)
Output power	36 W
Typical response time	< 0.5 s
Peak switching voltages idling	< 20 mV <sub>PP</sub> (20 MHz)
Peak switching voltages nominal load	< 20 mV <sub>PP</sub> (20 MHz)
Maximum power dissipation in no-load condition	1.5 W
Power loss nominal load max.	6.5 W

### General

Net weight	0.25 kg
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