

# Power supply unit - MINI-PS-100-240AC/24DC/4 - 2938837

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Primary-switched MINI POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/4 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
- Remote monitoring of output voltage via switching output



## Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4017918924058
Weight per Piece (excluding packing)	400.000 g
Custom tariff number	85044030
Country of origin	China

## Technical data

### Dimensions

Width	67.5 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)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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## Technical data

### Ambient conditions

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
	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz
Current consumption	1.3 A (120 V AC)
	0.8 A (230 V AC)
	1.3 A (90 V DC)
	0.4 A (350 V DC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 100 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 %
Setting range of the output voltage (U <sub>Set</sub> )	22.5 V DC ... 28.5 V DC (> 24 V DC, constant capacity restricted)
Nominal output current (I <sub>N</sub> )	4 A (-25 °C ... 60 °C)
POWER BOOST (I <sub>Boost</sub> )	5 A (-25 °C ... 40 °C permanent )
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	yes
Starting delay with capacitive load	Unrestricted
Max. capacitive load	Unlimited
Active current limitation	Approx 9 A (in the event of a short-circuit)
Control deviation	change in load, static 10 % ... 90 %
	< 3 % (change in load, dynamic 10 % ... 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 20 mV <sub>PP</sub> (20 MHz)
Output power	96 W
Typical response time	< 0.4 s
Peak switching voltages nominal load	< 100 mV <sub>PP</sub> (20 MHz)
Maximum power dissipation in no-load condition	2.5 W
Power loss nominal load max.	12 W

### General