

MINI-PS-100-240AC/24DC/2 - Power supply unit



2938730

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Primary-switched MINI POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/2 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.

Your advantages

- Easy-maintenance connection technology thanks to keyed COMBICON connectors
- Remote monitoring of output voltage via switching output

Commercial data

Item number	2938730
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CMP
Product key	CMPM13
Catalog page	Page 235 (C-4-2017)
GTIN	4017918899554
Weight per piece (including packing)	323.6 g
Weight per piece (excluding packing)	323.6 g
Customs tariff number	85044030
Country of origin	PL

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Technical data

Input data

AC operation

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
Input voltage range AC	85 V AC ... 264 V AC
Input voltage range DC	90 V DC ... 350 V DC
Voltage type of supply voltage	AC/DC
Inrush current	< 15 A (typical)
Inrush current integral (I^2t)	4.1 A ² s
AC frequency range	45 Hz ... 65 Hz
Mains buffering time	> 35 ms (120 V AC)
	> 170 ms (230 V AC)
Current consumption	0.7 A (120 V AC)
	0.4 A (230 V AC)
	0.65 A (90 V DC)
	0.2 A (350 V DC)
Nominal power consumption	84 VA
Typical response time	< 1 s
Input fuse	2.5 A (slow-blow, internal)
Recommended breaker for input protection	6 A ... 16 A (Characteristics B, C, D, K)

Output data

Efficiency	> 88 % (for 230 V AC and nominal values)
Nominal output voltage	24 V DC ± 1 %
Setting range of the output voltage (U_{Set})	22.5 V DC ... 28.5 V DC (> 24 V DC, constant capacity restricted)
Nominal output current (I_N)	2 A (-25 °C ... 60 °C)
POWER BOOST (I_{Boost})	2.9 A (-25 °C ... 40 °C permanent)
Derating	60 °C ... 70 °C (2.5 %/K)
Feedback voltage resistance	35 V DC
Protection against overvoltage at the output (OVP)	≤ 35 V DC
Starting delay with capacitive load	unrestricted
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	< 20 mV _{PP} (20 MHz)
Output power	48 W
Peak switching voltages nominal load	< 100 mV _{PP} (20 MHz)
Maximum no-load power dissipation	2 W
Power loss nominal load max.	7 W

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Connection in parallel	yes, for redundancy and increased capacity
Connection in series	yes

Signal: DC OK active

Output description	$U_{OUT} > 21.5 \text{ V}$: High signal
Maximum switching voltage	$\leq 24 \text{ V}$
Output voltage	+ 24 V
Continuous load current	$\leq 20 \text{ mA}$

Connection data

Input

Connection method	Pluggable screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid 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
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Output

Connection method	Pluggable screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid 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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Stripping length	7 mm
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Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Signal

Conductor cross section, rigid min.	0.2 mm ²
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