

MINI-PS-120-230AC/24DC/0.65 - Power supply



2938497

<https://www.phoenixcontact.com/us/products/2938497>

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Power supply unit, primary switched-mode

Commercial data

Item number	2938497
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CM11
Product key	CMPM13
GTIN	4017918607555
Weight per piece (including packing)	140 g
Weight per piece (excluding packing)	140 g
Customs tariff number	85044094
Country of origin	DE

Technical data

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
Input voltage range AC	85 V AC ... 264 V AC
Input voltage range DC	90 V DC ... 350 V DC
Inrush current	< 10 A (at 25 °C, < 1 ms)
AC frequency range	47 Hz ... 63 Hz
Frequency range DC	0 Hz
Mains buffering time	> 30 ms (at 120 V AC)
	> 100 ms (at 230 V AC)
Current consumption	0.2 A (at 230 V AC (nominal load))
	0.4 A (at 120 V AC (nominal load))
Typical response time	< 1 s
Input fuse	Internal

Output data

Efficiency	> 80 % (for 230 V AC and nominal values)
Nominal output voltage	24 V DC \pm 3 %
Nominal output current (I_N)	0.65 A (up to 60 °C)
POWER BOOST (I_{Boost})	1.2 A
Residual ripple	< 100 mV _{PP}
Output power	15.6 W
Peak switching voltages nominal load	< 20 mV _{PP} (20 MHz)
Maximum no-load power dissipation	< 2.2 W
Power loss nominal load max.	< 3.2 W
Connection in parallel	yes, for assembling redundant systems
Connection in series	yes

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.	14
Stripping length	7 mm
Screw thread	M3

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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
Conductor cross-section AWG max.	14
Stripping length	7 mm

Signaling

Signal output

Status display	Green LED (DC OK = LED permanently lit)
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Electrical properties

Insulation voltage input/output	3 kV (routine test)
	4 kV (type test)

Product properties

Product type	Power supply
MTBF (IEC 61709, SN 29500)	> 500000 h

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Mounting

Assembly note	alignable: vertical with spacing > 10 cm, horizontal with zero spacing
Mounting position	on horizontal DIN rail NS 35 in acc. with EN 60715

Material specifications

Type of housing	Polyamide PA, color: green
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (UL up to 50°C)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

Standards and regulations

Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
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Standard - Safe isolation

DIN VDE 0100-410

EMC data

Electromagnetic compatibility

Conformance with EMC directive 89/336/EC

Drawings

Diagram



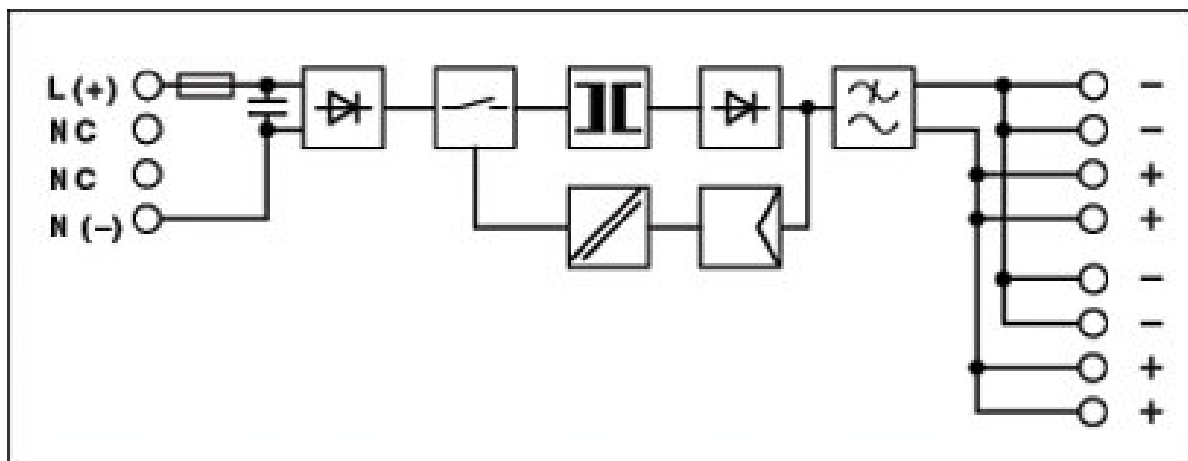
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Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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