

# QUINT-PS-120AC/24DC/10 - Power supply



2939072

<https://www.phoenixcontact.com/us/products/2939072>

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Power supply unit, primary switched-mode, input 120 V AC, output 24 V DC/10 A

## Commercial data

Item number	2939072
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CM11
Product key	CMPP13
GTIN	4017918155285
Weight per piece (including packing)	1,751.3 g
Weight per piece (excluding packing)	1,751.3 g
Customs tariff number	85044094
Country of origin	00

## Technical data

### Input data

#### AC operation

Input voltage	120 V AC
Input voltage range	90 V AC ... 132 V AC
Input voltage range AC	90 V AC ... 132 V AC
Inrush current	< 24 A (at 25 °C)
AC frequency range	47 Hz ... 63 Hz
Mains buffering time	> 20 ms
Current consumption	approx. 3 A
Input fuse	6.3 A (slow-blow, soldered internally)

### Output data

Efficiency	> 84 %
Nominal output voltage	24 V DC $\pm$ 1 % (typical)
Setting range of the output voltage ( $U_{Set}$ )	11.5 V DC ... 18 V DC (constant)
Nominal output current ( $I_N$ )	10 A
Residual ripple	150 mV <sub>PP</sub>
Peak switching voltages idling	100 mV <sub>PP</sub> (1.2 MHz bandwidth)
Maximum no-load power dissipation	< 5 W
Power loss nominal load max.	< 53 W
Connection in parallel	yes, for assembling redundant systems and increasing efficiency

### Connection data

#### Input

Connection method	Pluggable screw connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	14
Stripping length	8 mm
Screw thread	M2,5

#### Output

Connection method	Pluggable screw connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	4 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	4 mm <sup>2</sup>
Conductor cross-section AWG min.	24

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Conductor cross-section AWG max.	10
Stripping length	8 mm
Screw thread	M2,5

## Signaling

Operating voltage display	LED
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## Electrical properties

Insulation voltage input/output	1.8 kV (routine test)
	3 kV (type test)

## Product properties

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

## Dimensions

Width	180 mm
Height	115 mm
Depth	125 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

Housing material	Metal
Type of housing	High-grade steel plate, enclosed
Side element version	ABS V0, color: green

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 70 °C (UL up to 50°C)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	up to 95 % (at 25 °C, non-condensing)

## Standards and regulations

Standard - Electrical safety	EN 60950/VDE 0805-1
	DIN EN 50178/VDE 0160
	UL 508C
	CSA C22.2-14
	UL 1950
	CSA C22.2-950
	DIN VDE 0100-410

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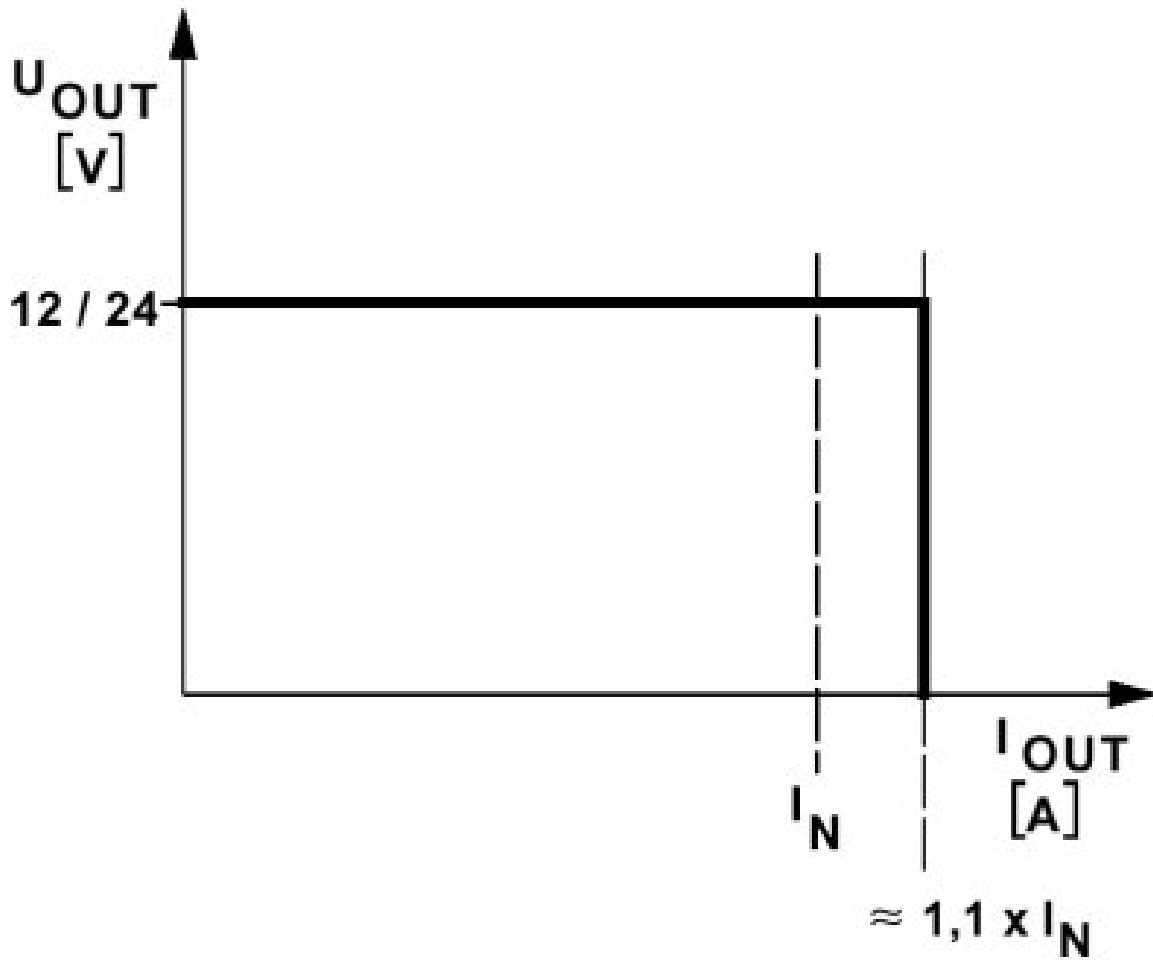
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	DIN VDE 0106-101
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-101

Drawings

Diagram



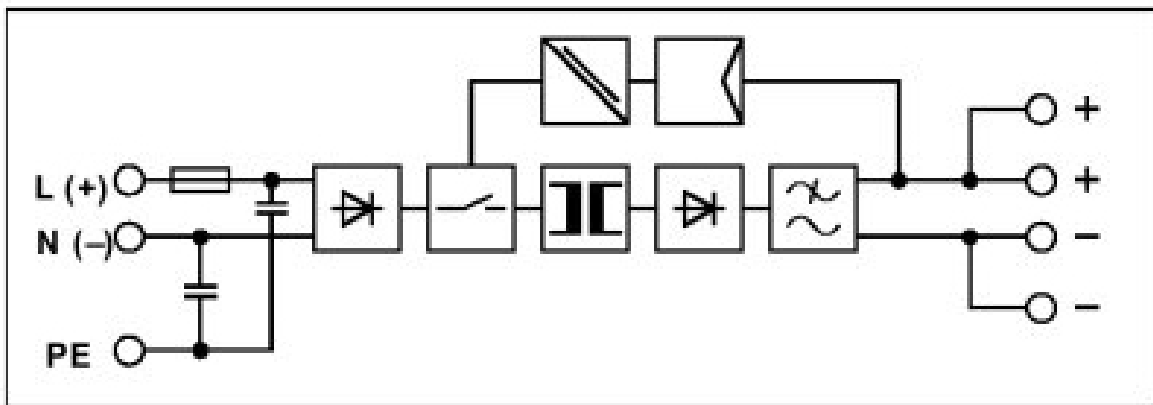
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Circuit diagram



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## Environmental product compliance

EU REACH SVHC

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