

QUINT-PS-120AC/12DC/10/F - Power supply unit



2938167

<https://www.phoenixcontact.com/us/products/2938167>

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Power supply unit, primary switched-mode, input 120 V AC, output 12 V DC/10 A, with filter

Commercial data

Item number	2938167
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CM11
Product key	CMPP12
GTIN	4017918174354
Weight per piece (including packing)	2,145.3 g
Weight per piece (excluding packing)	2,145.3 g
Customs tariff number	85044094
Country of origin	00

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Technical data

Input data

AC operation

Input voltage	120 V AC
Input voltage range	98 V AC ... 132 V AC
Input voltage range AC	98 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. 1.8 A
Input fuse	6.3 A (slow-blow, soldered internally)

Output data

Efficiency	> 82 %
Nominal output voltage	12 V DC ± 1 %
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 _{PP}
Peak switching voltages idling	100 mV _{PP} (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 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	8 mm
Screw thread	M2,5

Output

Connection method	Pluggable screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	4 mm ²
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

Insulation characteristics

Protection class	I (with PE connection)
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Dimensions

Width	180 mm
Height	115 mm
Depth	125 mm

Mounting

Assembly instructions	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

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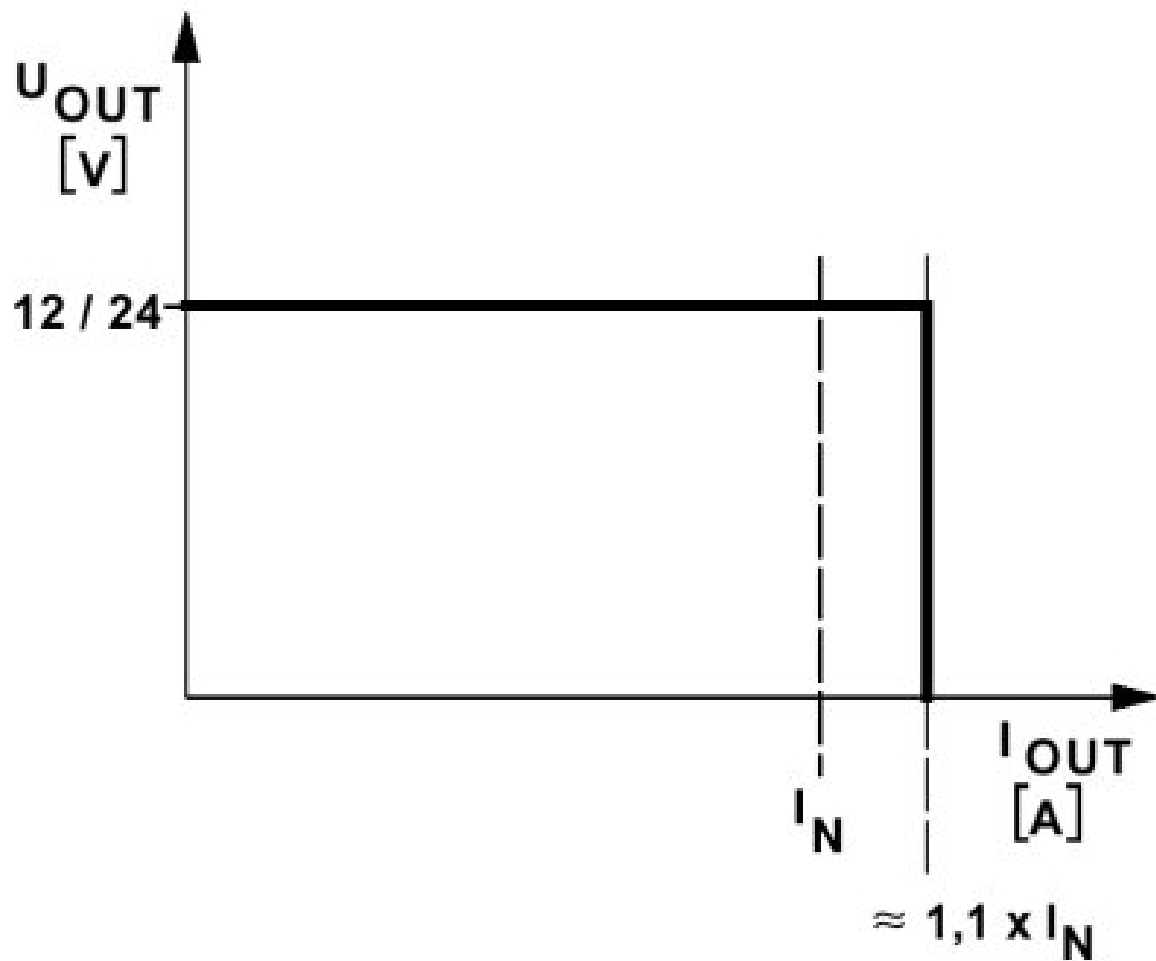
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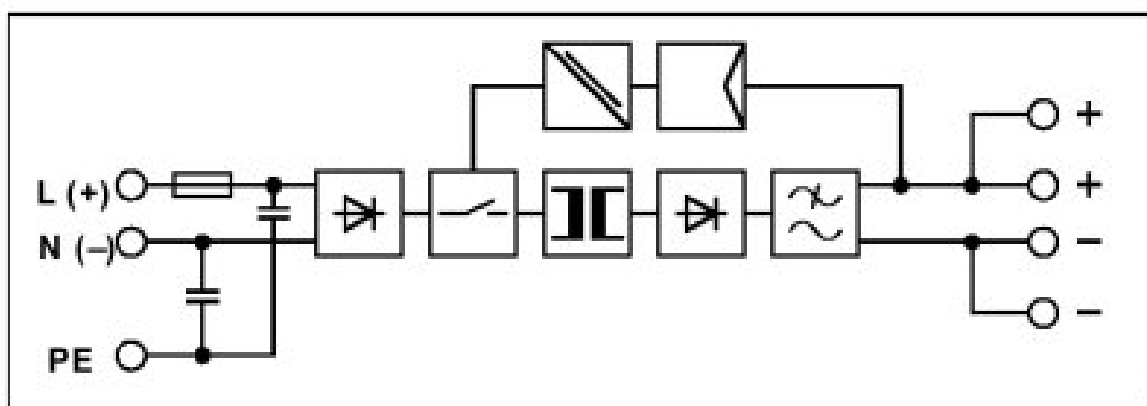
	UL 1950
	CSA C22.2-950
	DIN VDE 0100-410
	DIN VDE 0106-101
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-101

Drawings

Diagram



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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