

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



2938167

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

The figure shows the version QUINT-PS-230AC/24DC/10 F

## 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

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



2938167

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

## 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 $\pm$ 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 <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

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



2938167

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

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

## Signaling

Operating voltage display	LED
---------------------------	-----

## 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)
------------------	------------------------

## 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

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



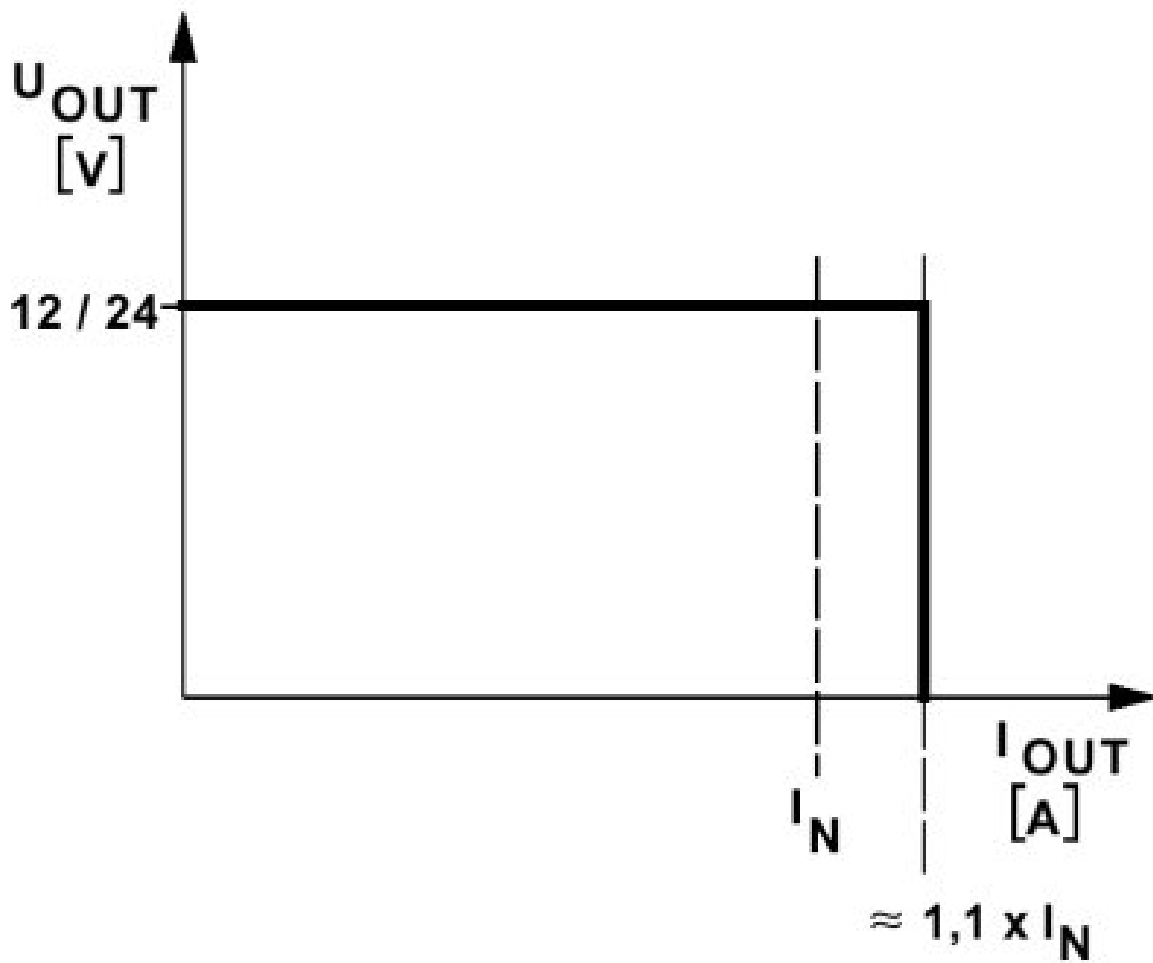
2938167

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

	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



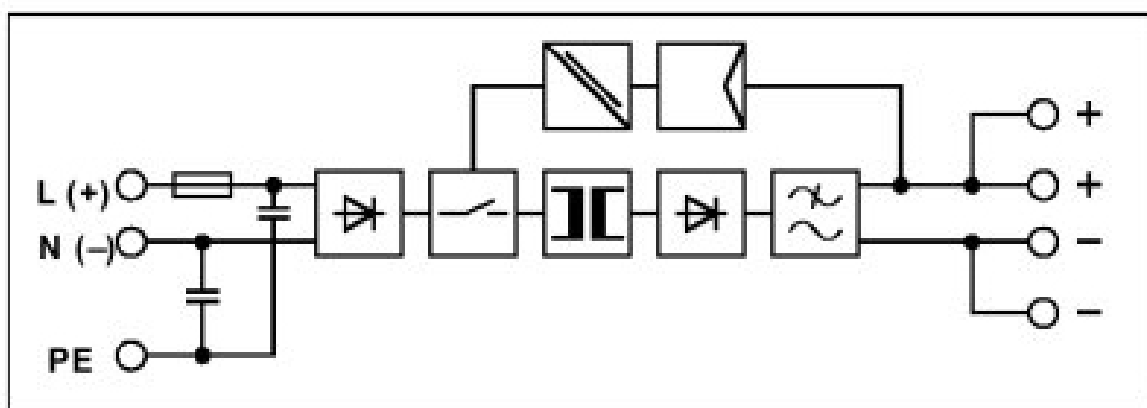
# QUINT-PS-120AC/12DC/10/F - Power supply



2938167

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

Circuit diagram



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



2938167

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

## Environmental product compliance

EU REACH SVHC

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

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)