Extract from the online catalog

QUINT-PS-100-240AC/12DC/10

Order No.: 2938811

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2938811

DIN rail power supply unit, primary-switched mode, 1-phase, output: 12 V DC / 10 A

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D W

Product notes

WEEE/RoHS-compliant since: 05/15/2006

Commercial data

GTIN (EAN)	4 017918 916374
sales group	H043
Pack	1 pcs.
Customs tariff	85044082
Catalog page information	Page 486 (IF-2007)

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Technical data

Input data

Nominal input voltage	100 V AC ... 240 V AC
AC input voltage range	85 V AC ... 264 V AC
DC input voltage range	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz

DC frequency range	0 Hz
Current consumption	Approx. 1.5 A (120 V AC)
	0.6 A (230 V AC)
Nominal power consumption	120 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 50 ms (120 V AC)
	> 50 ms (230 V AC)
Input fuse	6.3 A (slow-blow, internal)
Permissible backup fuse	B10
	B16

Output data

Nominal output voltage	12 V DC ±1%
Setting range of the output voltage	11.5 V DC ... 18 V DC
Output current	10 A (nominal value, up to 60°C)
	16 A (with POWER BOOST)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Max. capacitive load	Unlimited
Residual ripple	< 30 mV_{PP}
Peak switching voltages nominal load	< 50 mV_{PP} (20 MHz)
Maximum power dissipation idling	< 4 W
Power loss nominal load max.	< 22 W

General data

Width	85 mm
Height	130 mm
Depth	130 mm
Width with alternative assembly	122 mm
Height with alternative assembly	88 mm
	88 mm
Net weight	1.3 kg
Operating voltage display	Green LED
Efficiency	> 84 %
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)

Degree of protection	IP20
Protection class	I, with PE connection
MTBF (IEC 61709, SN 29500)	> 500000 h
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, no condensation)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 5 cm
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	EN 60950-1 (SELV) and EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard – Equipment safety	GS (tested safety)
Certificate	CB Scheme
UL approvals	UL/C-UL Recognized UL 60950
	UL/C-UL listed UL 508
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm

Signaling

Output name	DC OK active
Output description	U_{OUT} > 0.9 x U_N: High signal
Maximum switching voltage	$\leq$ 12 V
Output voltage	+ 12 V DC
Maximum inrush current	$\leq$ 40 mA
Continuous load current	$\leq$ 40 mA
Status display	"DC OK" LED green
Note on status display	U_{OUT} < 0.9 x U_N: LED flashing
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3
Output name	DC OK floating
Output description	Relay contact, U_{OUT} > 0.9 x U_N: Contact closed
Maximum switching voltage	$\leq$ 30 V AC/DC
Maximum inrush current	$\leq$ 1 A
Continuous load current	$\leq$ 1 A
Status display	"DC OK" LED green

Certificates / Approvals

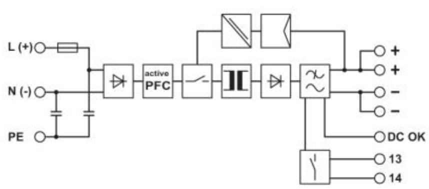
Certification	CB, CUL, CUL Listed, GOST, UL, UL Listed
Certification Ex:	CUL-EX LIS, UL-EX LIS

Accessories

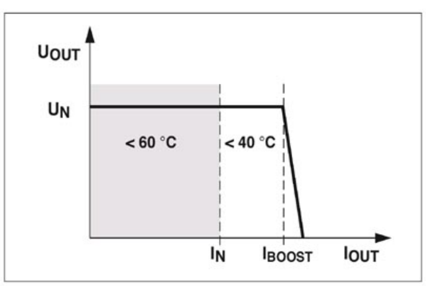
Item	Designation	Description
General		
2938206	QUINT-PS-ADAPTERS7/2	Assembly adapter for QUINT POWER 10A on S7-300 rail
2938235	UWA 182/52	Universal wall adapter

Diagrams/Drawings

Block diagram



Diagram



POWER BOOST

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