

# QUINT-PS-100-240AC/48DC/ 5


Order No.: 2866255



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DIN rail power supply unit, primary-switched mode, 1-phase, output: 48 V DC / 5 A



Commercial data	
GTIN (EAN)	 4 017918 951191
sales group	H046
Pack	1 pcs.
Customs tariff	85044082
Catalog page information	Page 484 (IF-2007)

**Product notes**

WEEE/RoHS-compliant since: 05/08/2006



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Technical data	
<b>Input data</b>	
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. 2.2 A (120 V AC)
	1.2 A (230 V AC)
Nominal power consumption	240 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
Type of protection	Transient surge protection
Protective circuit/component	Varistor
<b>Output data</b>	
Nominal output voltage	48 V DC $\pm$ 1%
Setting range of the output voltage	40 V DC ... 56 V DC
Output current	5 A (up to 60°C)
	7.5 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 <sub>PP</sub>
Peak switching voltages nominal load	< 50 mV <sub>PP</sub> (20 MHz)
Maximum power dissipation idling	2 W
Power loss nominal load max.	24 W
<b>General data</b>	
Width	85 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	130 mm
	88 mm
Net weight	1.3 kg
Operating voltage display	Green LED
Efficiency	> 91 %

Insulation voltage input/output	4 kV (type test) 2 kV (routine 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
Noise emission	EN 50081-2
Noise immunity	EN 61000-6-2:2005
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 - 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

#### Connection data, input

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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	$U_{OUT} > 0.9 \times U_N$ : High signal
Maximum switching voltage	$\leq 24$ V
Output voltage	+ 24 V DC
Maximum inrush current	$\leq 20$ mA
Continuous load current	$\leq 40$ mA
Status display	"DC OK" LED green
Note on status display	$U_{OUT} < 0.9 \times U_N$ : LED flashing
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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, $U_{OUT} > 0.9 \times U_N$ : 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
Note on status display	$U_{OUT} < 0.9 \times U_N$ : LED flashing

### Certificates / Approvals



Certification

CB, CUL, CUL Listed, GOST, UL, UL Listed

### Accessories

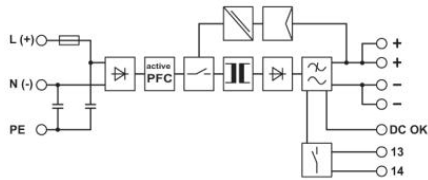
Item	Designation	Description
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#### General

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

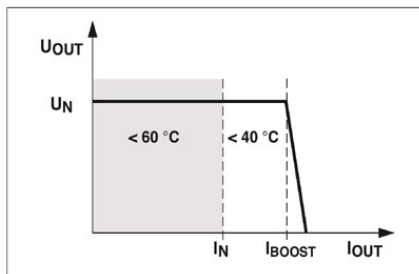
### Diagrams/Drawings

Block diagram



Diagram

POWER BOOST



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