

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

Order No.: 2866255




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

Commercial data	
EAN	4017918951191
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	1.5732 KG
Catalog page information	Page 484 (IF-2007)

Product notes

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



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. 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)
Recommended backup fuse	10 A
	16 A (characteristic B)
Name of protection	Transient surge protection
Protective circuit/component	Varistor
Output data	
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 mVPP
Peak switching voltages nominal load	< 50 mVPP (20 MHz)
Maximum power dissipation idling	2 W
Power loss nominal load max.	24 W
General data	
Width	85 mm
Height	130 mm
Depth	125 mm
Weight	1.3 kg
Operating voltage display	LED green
Efficiency	> 91 %
Insulation voltage input/output	4 kV (type test)
	2 kV (routine test)
Degree of protection	IP20

Class of protection	I, with PE connection
MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
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/EEC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2
Standard – Safety transformers for switched-mode power supply units	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV) EN 61558-2-17
Standard – Shipbuilding	German Lloyd, ABS
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

Type of connection	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3

Connection data, output

Type of connection	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
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	≤ 24 V
Output voltage	+ 24 V DC
Maximum inrush current	≤ 20 mA
Continuous load current	≤ 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 ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
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	≤ 60 V AC/DC
Maximum inrush current	≤ 0.5 A
Continuous load current	≤ 0.5 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, UL, UL Listed

Accessories

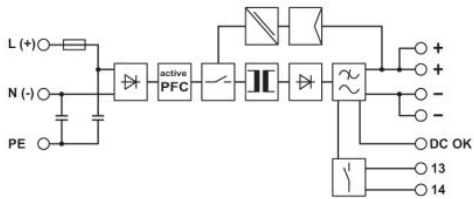
Item	Designation	Description
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General

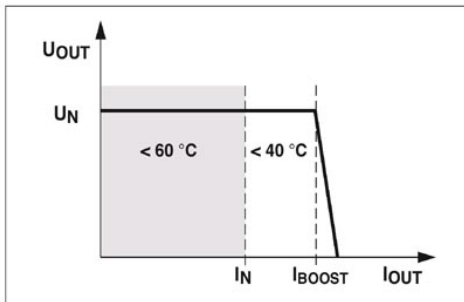
2938206	QUINT-PS-ADAPTERS7/2	Assembly adapter for QUINT POWER 10A on S7-300 rail
2938235	UWA 182/52	Universal wall adapter

Drawings

Block diagram



Diagram



POWER BOOST