

QUINT-PS-100-240AC/24DC/10/EX

Order No.: 2938866



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DIN rail power supply unit, primary-switched mode, 1-phase, output: 24 V DC / 10 A, for the potentially explosive area



Commercial data	
GTIN (EAN)	4017918943486
sales group	H041
Pack	1 pcs.
Customs tariff	85044081
Weight/Piece	1.546 KG
Catalog page information	Page 595 (IF-2009)

Product notes

WEEE/RoHS-compliant since: 05/10/2006



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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 ... 250 V DC

AC frequency range	45 Hz ... 65 Hz
DC frequency range	0 Hz
Current consumption	Approx. 2.4 A (120 V AC)
	1.3 A (230 V AC)
Nominal power consumption	240 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 40 ms (120 V AC)
	> 40 ms (230 V AC)
Input fuse	6.3 A (slow-blow, internal)
Permissible backup fuse	B10
	B16

Output data

Nominal output voltage	24 V DC \pm 1%
Setting range of the output voltage	22.5 V DC ... 28.5 V DC
Output current	10 A (Up to +60°C)
	15 A (with POWER BOOST)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Residual ripple	< 100 mV _{PP}
Maximum power dissipation idling	4 W
Power loss nominal load max.	33 W

General data

Width	85 mm
Height	130 mm
Depth	125 mm
Net weight	1.3 kg
Operating voltage display	LED green
Efficiency	> 88 %
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)
Degree of protection	IP20
Protection class	I, with PE connection
MTBF	> 500,000 h in acc. with IEC 61709 (SN 29500)
Ambient temperature (operation)	-25 °C ... 60 °C (/ +40°C)

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	100 % (condensation permitted)
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
Noise emission	EN 50081-2
Noise immunity	EN 61000-6-2:2005
Conformity with EN 50 021	EX II 3G EEx nAC IIC T4, TÜV 03 ATEX 2047X
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV) EN 61558-2-17
Shipbuilding approval	Germanischer Lloyd (EMC 2)
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 listed UL 508 UL/C-UL Recognized UL 60950 UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

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
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Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	10 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
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 (signal)
Maximum inrush current	max. 44 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.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	10 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Screw thread	M4
Output name	DC OK floating
Output description	Relay contact, $U_{OUT} > 0.9 \times U_N$: Contact closed
Maximum switching voltage	≤ 30 V AC/DC
Maximum inrush current	max. 1 A
Continuous load current	≤ 1 A
Status display	"DC OK" LED green

Certificates / Approvals



Certification

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

Certification Ex:

CUL-EX LIS, UL-EX LIS

Accessories

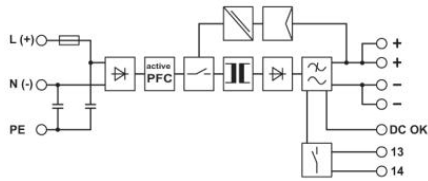
Item	Designation	Description
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General

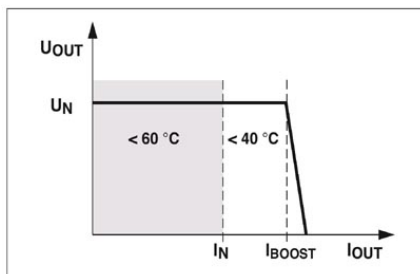
2938206	QUINT-PS-ADAPTERS7/2	Assembly adapter for QUINT POWER 10A on S7-300 rail
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Diagrams/Drawings

Block diagram



Diagram



POWER BOOST

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