

Power supply unit - QUINT-PS-100-240AC/48DC/ 5 - 2866255

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



Key commercial data

package_quantity	1
GTIN	4017918951191

Technical data

Dimensions

Width	85 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	88 mm

Ambient conditions

Degree of protection	IP20
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)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range AC	85 V AC ... 264 V AC
Input voltage range DC	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Current consumption	approx. 2.2 A (120 V AC)
Current consumption	1.2 A (230 V AC)
Nominal power consumption	240 W
Inrush surge current	< 15 A (typical)

Power supply unit - QUINT-PS-100-240AC/48DC/ 5 - 2866255

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Input data

Power failure bypass	> 50 ms (120 V AC)
Power failure bypass	> 50 ms (230 V AC)
Input fuse	6.3 A (slow-blow, internal)
Type 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)
Output current	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 _{PP}
Peak switching voltages nominal load	< 50 mV _{PP} (20 MHz)
Maximum power dissipation NO-Load	2 W
Power loss nominal load max.	24 W

General

Net weight	1.3 kg
Operating voltage display	Green LED
Efficiency	> 91 %
Insulation voltage input/output	4 kV (type test)
Insulation voltage input/output	2 kV (routine test)
Protection class	I, with PE connection
MTBF (IEC 61709, SN 29500)	> 500000 h
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise emission	EN 50081-2
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard - Electrical safety	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
Standard - Safe isolation	DIN VDE 0106-1010
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard - Equipment safety	GS (tested safety)
Information technology equipment - safety (CB scheme)	CB Scheme
UL approvals	UL/C-UL Recognized UL 60950

Power supply unit - QUINT-PS-100-240AC/48DC/ 5 - 2866255

Technical data

General

UL approvals	UL/C-UL listed UL 508
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Connection data, input

Connection method	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

Connection method	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

Power supply unit - QUINT-PS-100-240AC/48DC/ 5 - 2866255

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Signaling

Maximum switching voltage	$\leq 30 \text{ V AC/DC}$
Maximum inrush current	$\leq 1 \text{ A}$
Continuous load current	$\leq 1 \text{ A}$
Status display	"DC OK" LED green
Note on status display	$U_{OUT} < 0.9 \times U_N$: LED flashing

classifications

eCl@ss

eCl@ss 4.0	27250202
eCl@ss 4.1	27250202
eCl@ss 5.0	27143114
eCl@ss 5.1	27143114
eCl@ss 6.0	27143114
eCl@ss 7.0	27143114
eCl@ss 8.0	27143114

ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002540

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

approvals

UL Recognized / UL Listed / cUL Recognized / GOST / cUL Listed / IECEx CB Scheme / cULus Recognized / cULus Listed /

Approval details

UL Recognized 

UL Listed 

Power supply unit - QUINT-PS-100-240AC/48DC/ 5 - 2866255

approvals

cUL Recognized 

GOST 

cUL Listed 

IECEE CB Scheme 

cULus Recognized  US

cULus Listed  US

accessories

Assembly adapter

QUINT-PS-ADAPTERS7/2 - 2938206



UWA 182/52 - 2938235

Mounting rail adapter

Power supply unit - QUINT-PS-100-240AC/48DC/ 5 - 2866255

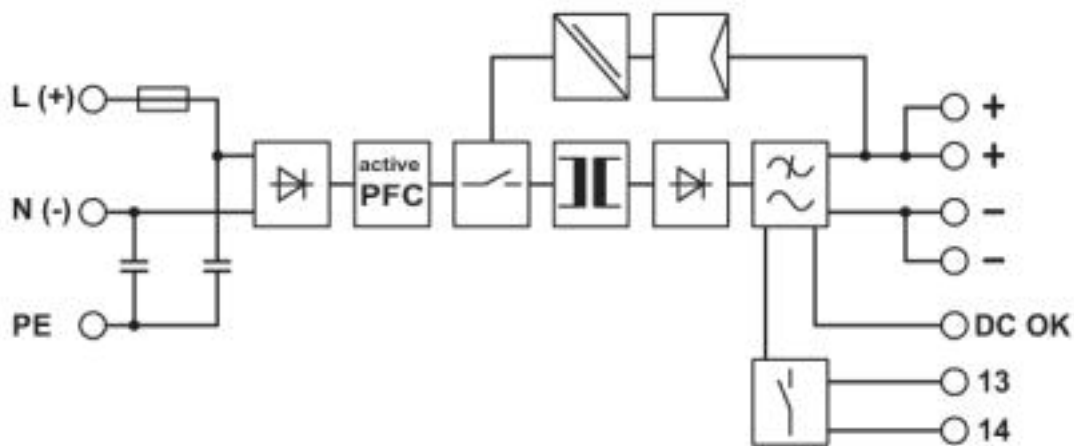
accessories

UTA 107 - 2853983



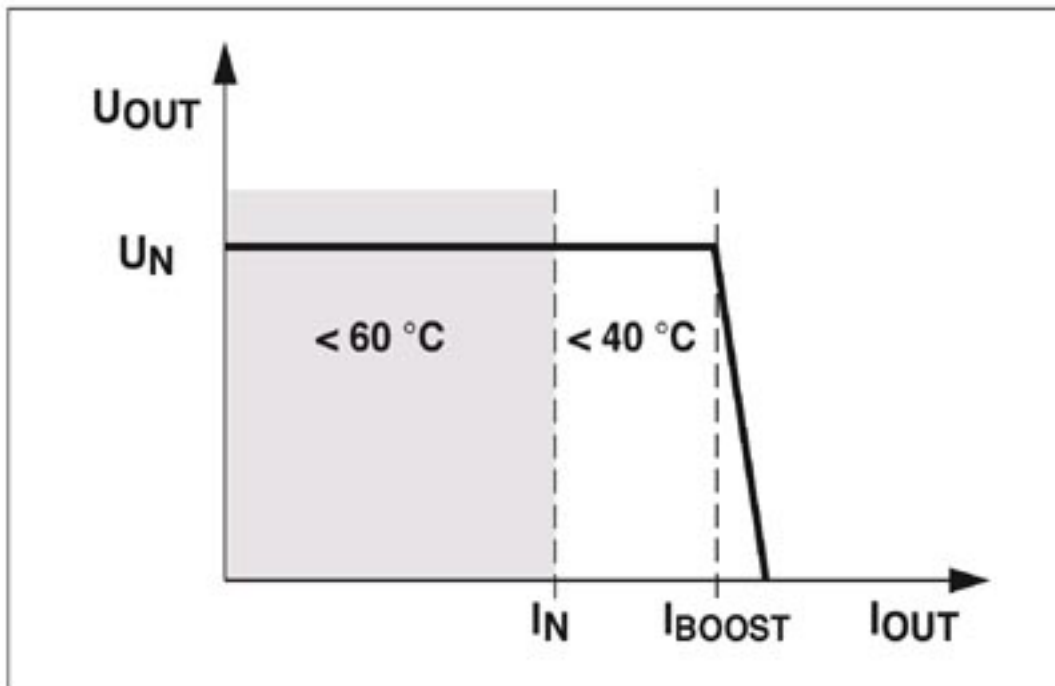
Drawings

Block diagram



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Diagram



POWER BOOST

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