

# Power supply unit - QUINT-PS-100-240AC/12DC/10 - 2938811

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



## Key commercial data

package_quantity	1
GTIN	4017918916374

## Technical data

### Dimensions

Width	85 mm
Height	130 mm
Depth	130 mm
Width with alternative assembly	122 mm
Height with alternative assembly	88 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, non-condensing)

### Input data

Input voltage range	85 V AC ... 264 V AC
Input voltage range	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Current consumption	approx. 1.5 A (120 V AC)
Current consumption	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)
Power failure bypass	> 50 ms (230 V AC)

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## Technical data

### Input data

<b>Input fuse</b>	6.3 A (slow-blow, internal)
<b>Choice of suitable fuses</b>	10 A ... 16 A (Characteristics B, C, D, K)

### Output data

<b>Nominal output voltage</b>	12 V DC $\pm 1\%$
<b>Setting range of the output voltage</b>	11.5 V DC ... 18 V DC
<b>Output current</b>	10 A (nominal value, up to 60°C)
<b>Output current</b>	16 A (with POWER BOOST)
<b>Derating</b>	60 °C ... 70 °C (2.5%/K)
<b>Connection in parallel</b>	Yes, for redundancy and increased capacity
<b>Connection in series</b>	Yes
<b>Max. capacitive load</b>	Unlimited
<b>Residual ripple</b>	< 30 mV <sub>PP</sub>
<b>Peak switching voltages nominal load</b>	< 50 mV <sub>PP</sub> (20 MHz)
<b>Maximum power dissipation NO-Load</b>	< 4 W
<b>Power loss nominal load max.</b>	< 22 W

### General

<b>Net weight</b>	1.3 kg
<b>Operating voltage display</b>	Green LED
<b>Efficiency</b>	> 84 %
<b>Insulation voltage input/output</b>	2 kV (routine test)
<b>Insulation voltage input/output</b>	4 kV (type test)
<b>Protection class</b>	I (with PE connection)
<b>MTBF (IEC 61709, SN 29500)</b>	> 500000 h
<b>Mounting position</b>	horizontal DIN rail NS 35, EN 60715
<b>Assembly instructions</b>	Can be aligned: Horizontally 0 mm, vertically 50 mm
<b>Electromagnetic compatibility</b>	Conformance with EMC directive 89/336/EC
<b>Standard - Safety of transformers</b>	EN 61558-2-17
<b>Standard - Electrical safety</b>	EN 60950-1/VDE 0805 (SELV)
<b>Standard - Electrical safety</b>	EN 61558-2-17
<b>Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations</b>	EN 50178/VDE 0160 (PELV)
<b>Standard – Safety extra-low voltage</b>	EN 60950-1 (SELV) and EN 60204 (PELV)
<b>Standard - Safe isolation</b>	DIN VDE 0100-410
<b>Standard - Safe isolation</b>	DIN VDE 0106-1010
<b>Standard – Limitation of mains harmonic currents</b>	EN 61000-3-2
<b>Standard - Equipment safety</b>	GS (tested safety)
<b>Information technology equipment - safety (CB scheme)</b>	CB Scheme
<b>UL approvals</b>	UL/C-UL Recognized UL 60950
<b>UL approvals</b>	UL/C-UL listed UL 508
<b>UL approvals</b>	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

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## Technical data

### Connection data, input

Connection method	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	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	$\leq 12$ 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	$U_{OUT} < 0.9 \times U_N$ ; 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

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## Technical data

### Signaling

<b>Continuous load current</b>	≤ 1 A
<b>Status display</b>	"DC OK" LED green

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27040702
<b>eCl@ss 4.1</b>	27040702
<b>eCl@ss 5.0</b>	27049002
<b>eCl@ss 5.1</b>	27049002
<b>eCl@ss 6.0</b>	27049002
<b>eCl@ss 7.0</b>	27049002
<b>eCl@ss 8.0</b>	27049002

### ETIM

<b>ETIM 2.0</b>	EC001039
<b>ETIM 3.0</b>	EC001039
<b>ETIM 4.0</b>	EC000599
<b>ETIM 5.0</b>	EC002540

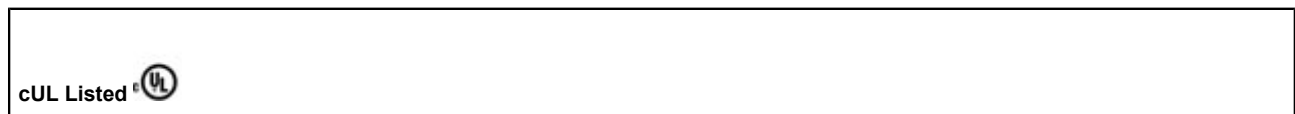
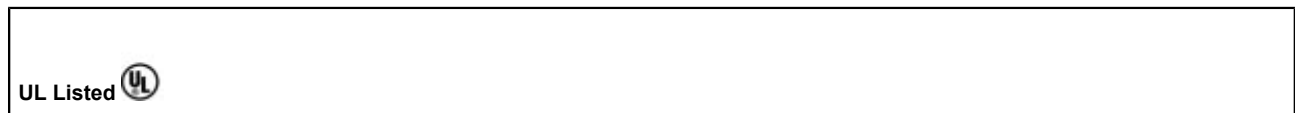
### UNSPSC

<b>UNSPSC 6.01</b>	30211502
<b>UNSPSC 7.0901</b>	39121004
<b>UNSPSC 11</b>	39121004
<b>UNSPSC 12.01</b>	39121004
<b>UNSPSC 13.2</b>	39121004

## approvals

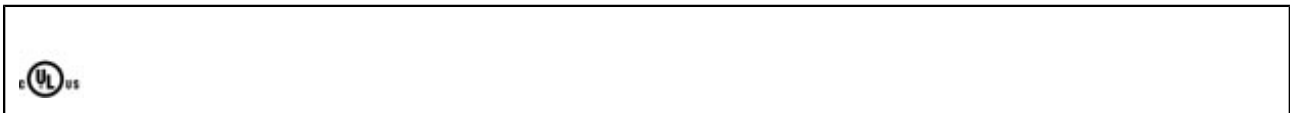
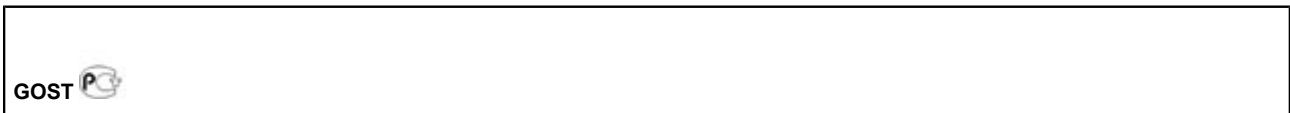
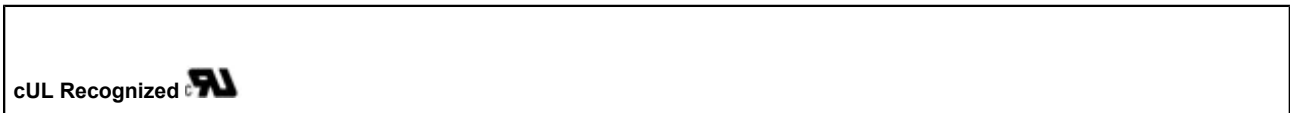
UL Listed / cUL Listed / cULus Listed / UL Recognized / UL Listed / cUL Recognized / GOST / cUL Listed / IECCE CB Scheme / cULus Recognized / cULus Listed /

### Approval details



# Power supply unit - QUINT-PS-100-240AC/12DC/10 - 2938811

approvals



accessories

**Assembly adapter**

# Power supply unit - QUINT-PS-100-240AC/12DC/10 - 2938811

accessories

QUINT-PS-ADAPTERS7/2 - 2938206



UWA 182/52 - 2938235



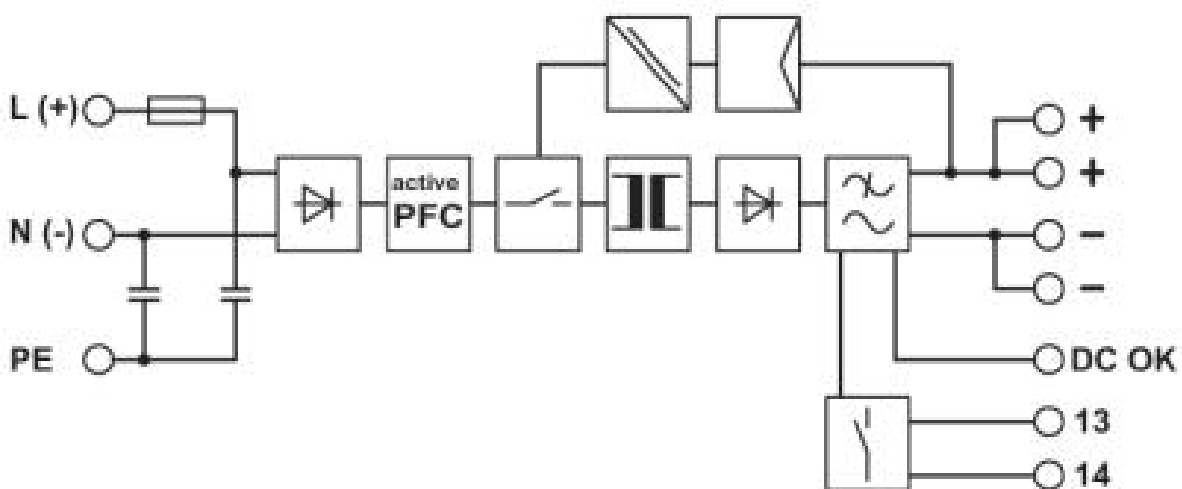
## Mounting rail adapter

UTA 107 - 2853983



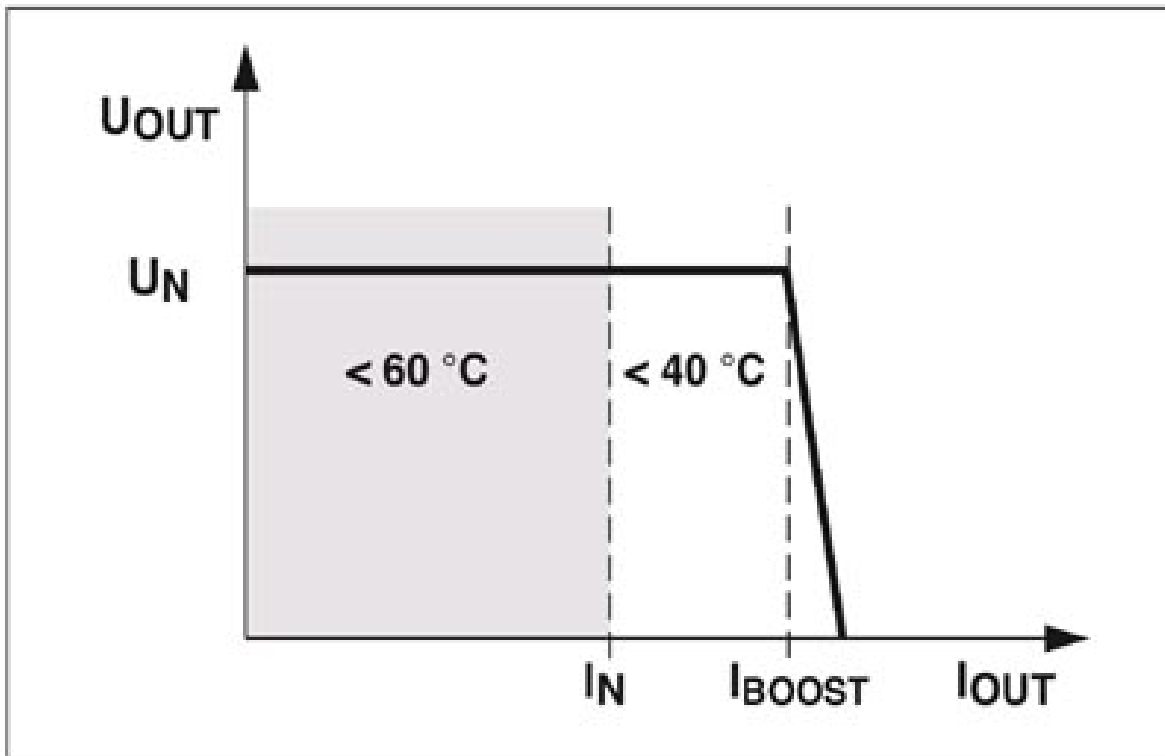
## Drawings

Block diagram



# Power supply unit - QUINT-PS-100-240AC/12DC/10 - 2938811

Diagram



POWER BOOST

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