

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

Packing unit	1 pc
GTIN	 4 017918 916374
GTIN	4017918916374
Weight per Piece (excluding packing)	1,460.000 g
Custom tariff number	85044030
Country of origin	Thailand

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: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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Ambient conditions

Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)
Degree of pollution	2

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
	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)
	0.6 A (230 V AC)
Nominal power consumption	139 W
Inrush current	< 15 A (typical)
Mains buffering time	> 50 ms (120 V AC)
	> 50 ms (230 V AC)
Input fuse	6.3 A (slow-blow, internal)
Recommended breaker for input protection	10 A ... 16 A (Characteristics B, C, D, K)

Output data

Nominal output voltage	12 V DC \pm 1 %
Setting range of the output voltage (U_{Set})	11.5 V DC ... 18 V DC
Nominal output current (I_N)	10 A (up to 60°C)
POWER BOOST (I_{Boost})	16 A
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	yes
Feedback voltage resistance	35 V DC
Protection against overvoltage at the output (OVP)	\leq 35 V DC
Max. capacitive load	unlimited
Residual ripple	< 30 mV _{PP}
Output power	120 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 50 mV _{PP} (20 MHz)
Maximum power dissipation in no-load condition	< 4 W
Power loss nominal load max.	< 22 W

General

Net weight	1.3 kg
Operating voltage display	Green LED

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General

Efficiency	> 84 %
MTBF (IEC 61709, SN 29500)	> 500000 h
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)
Degree of protection	IP20
Protection class	I (with PE connection)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

Signaling

Output name	DC OK active
Output description	$U_{OUT} > 0.9 \times U_N$; High signal
Maximum switching voltage	≤ 12 V
Output voltage	+ 12 V DC
Maximum inrush current	≤ 40 mA
Continuous load current	≤ 40 mA
Status display	"DC OK" LED green

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Signaling

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 flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG 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	≤ 30 V AC/DC
Maximum inrush current	≤ 1 A
Continuous load current	≤ 1 A
Status display	"DC OK" LED green

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2
Connection in acc. with standard	CUL
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
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 – Safety extra-low voltage	EN 60950-1 (SELV) and EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard - Equipment safety	GS (tested safety)
UL approvals	UL/C-UL Recognized UL 60950-1
	UL/C-UL listed UL 508
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D
Certificate	CB Scheme

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;

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Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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