

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 |
| Max. permissible relative humidity (operation) | 95 % (at 25 °C, non-condensing) |

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Technical data

Ambient conditions

| | |
|---------------------|---|
| 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) | ≤ 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 |
| Efficiency | > 84 % |

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General

| | |
|---------------------------------|--|
| 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 |
| Note on status display | $U_{OUT} < 0.9 \times U_N$: LED flashing |

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Technical data

Signaling

| | |
|---------------------------------------|---|
| 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 x 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

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

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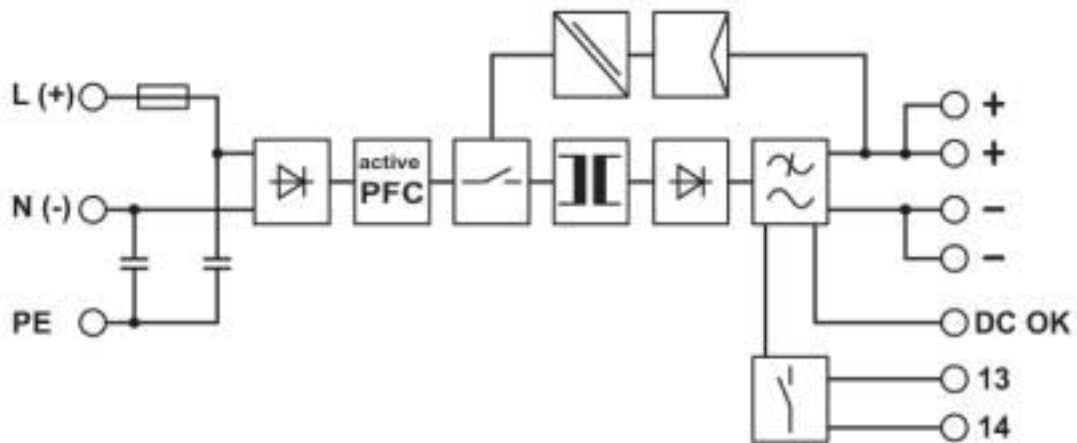
Technical data

Environmental Product Compliance

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

Drawings

Block diagram



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27040701 |
| eCl@ss 4.0 | 27040700 |
| eCl@ss 4.1 | 27040700 |
| eCl@ss 5.0 | 27049000 |
| eCl@ss 5.1 | 27049000 |
| eCl@ss 6.0 | 27049000 |
| eCl@ss 7.0 | 27049002 |
| eCl@ss 8.0 | 27049002 |
| eCl@ss 9.0 | 27040701 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001039 |
| ETIM 3.0 | EC001039 |
| ETIM 4.0 | EC000599 |
| ETIM 5.0 | EC002540 |
| ETIM 6.0 | EC002540 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC002540 |
|----------|----------|

UNSPSC

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|---------------|----------|
| UNSPSC 6.01 | 30211502 |
| UNSPSC 7.0901 | 39121004 |
| UNSPSC 11 | 39121004 |
| UNSPSC 12.01 | 39121004 |
| UNSPSC 13.2 | 39121004 |
| UNSPSC 18.0 | 39121004 |
| UNSPSC 19.0 | 39121004 |
| UNSPSC 20.0 | 39121004 |
| UNSPSC 21.0 | 39121004 |

Approvals

Approvals

Approvals

UL Listed / UL Recognized / cUL Recognized / IECCEB Scheme / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 123528 |
|-----------|--|---|---------------|

| | | | |
|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 211944 |
|---------------|--|---|---------------|

| | | | |
|----------------|--|---|---------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 211944 |
|----------------|--|---|---------------|

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Approvals

| | | | |
|-----------------|--|---|---------|
| IECEE CB Scheme | | http://www.iecee.org/ | SI-1001 |
|-----------------|--|---|---------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 123528 |
|------------|--|---|---------------|

| | | | |
|-----|--|--|---------------|
| EAC | | | EAC-Zulassung |
|-----|--|--|---------------|

| | | | |
|-----|--|--|---------------------|
| EAC | | | RU*DE*08.B.01873/19 |
|-----|--|--|---------------------|

| | | | |
|------------------|--|--|--|
| cULus Recognized | | | |
|------------------|--|--|--|

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|--------------|--|--|--|
| cULus Listed | | | |
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Accessories

Accessories

Assembly adapter

Assembly adapters - QUINT-PS-ADAPTERS7/2 - 2938206

Assembly adapter for QUINT POWER 10A on S7-300 rail



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Accessories

Assembly adapters - UWA 182/52 - 2938235



Universal wall adapter for securely mounting the device in the event of strong vibrations. The device is screwed directly onto the mounting surface. The universal wall adapter is attached on the top/bottom.

Device protection

Type 3 surge protection device - PLT-SEC-T3-230-FM-UT - 2907919



Type 2/3 surge protection, consisting of protective plug and base element with screw connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage 230 V AC/DC.

Type 3 surge protection device - TTC-6P-T3-24DC-PT-I - 1027586



Type 3 surge protection, consisting of protective plug and base element, with integrated status indicator for 24 V DC power supplies.

Mounting rail adapter

DIN rail adapter - UTA 107 - 2853983

Universal DIN rail adapter, for screwing on switchgear

