

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

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 951191 |
| 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: 2.5 %/K) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Max. permissible relative humidity (operation) | 95 % (at 25 °C, non-condensing) |

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 |

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Input data

| | |
|-------------------------------------|--|
| Current consumption | approx. 2.2 A (120 V AC) |
| | 1.2 A (230 V AC) |
| Nominal power consumption | 263 W |
| Inrush surge current | < 15 A (typical) |
| Mains buffering | > 50 ms (120 V AC) |
| | > 50 ms (230 V AC) |
| Input fuse | 6.3 A (slow-blow, internal) |
| Choice of suitable circuit breakers | 10 A ... 16 A (Characteristics B, C, D, K) |
| 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 (U_{Set}) | 40 V DC ... 56 V DC |
| Nominal output current (I_N) | 5 A (up to 60°C) |
| POWER BOOST (I_{Boost}) | 7.5 A |
| Connection in parallel | Yes, for redundancy and increased capacity |
| Connection in series | yes |
| Max. capacitive load | Unlimited |
| Residual ripple | < 30 mV _{PP} |
| Output power | 240 W |
| Typical response time | < 1 s |
| Peak switching voltages nominal load | < 50 mV _{PP} (20 MHz) |
| Maximum power dissipation in no-load condition | 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) |
| | 2 kV (routine test) |
| Protection class | I (with PE connection) |
| Degree of protection | IP20 |
| MTBF (IEC 61709, SN 29500) | > 500000 h |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | alignable: horizontally 0 mm, vertically 50 mm |

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 |

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Connection data, input

| | |
|---------------------------------------|---------------------|
| 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 | Pluggable 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 | ≤ 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 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 |

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Technical data

Signaling

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

Standards and Regulations

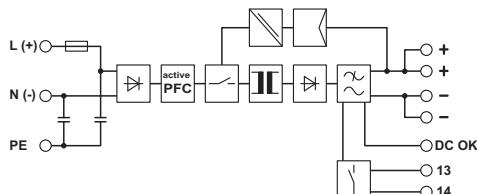
| | |
|--|--|
| Electromagnetic compatibility | Conformance with EMC directive 89/336/EC |
| Noise emission | EN 55011 (EN 55022) |
| Noise immunity | EN 61000-6-2:2005 |
| Connection in acc. with standard | CUL |
| Standard - Safety of transformers | EN 61558-2-17 |
| Standard - Electrical safety | 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 - 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 |
| Information technology equipment - safety (CB scheme) | CB Scheme |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 25; |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Block diagram



Approvals

Approvals

Approvals

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

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Approvals

Ex Approvals

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 |
| 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 C- DE.A*30.B.01082 |
| cULus Recognized | | | |
| cULus Listed | | | |

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- Формирование склада под заказчика.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
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