

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



2938811

<https://www.phoenixcontact.com/gb/products/2938811>

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DIN rail power supply unit 12 V DC/10 A, primary-switched, 1-phase.
Please use the following item in new systems: 2904608

Product description

QUINT POWER power supply units for plant and special engineering reliably start heavy loads with high inrush currents using the POWER BOOST. Thanks to the wide-range input and extensive package of approvals, they can be used in all sectors of industry the world over. The switching output or floating relay contact are used for remote diagnostics.

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2938811 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CMPP12 |
| Product key | CMPP12 |
| GTIN | 4017918916374 |
| Weight per piece (including packing) | 1,497.4 g |
| Weight per piece (excluding packing) | 1,496 g |
| Customs tariff number | 85044095 |
| Country of origin | TH |

Technical data

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 |
| Input voltage range AC | 85 V AC ... 264 V AC |
| Input voltage range DC | 90 V DC ... 350 V DC |
| Voltage type of supply voltage | AC/DC |
| Inrush current | < 15 A (typical) |
| Inrush current integral (I^2t) | 1 A ² s |
| AC frequency range | 45 Hz ... 65 Hz |
| Frequency range DC | 0 Hz |
| Mains buffering time | > 50 ms (120 V AC) |
| | > 50 ms (230 V AC) |
| Current consumption | approx. 1.5 A (120 V AC) |
| | 0.6 A (230 V AC) |
| Nominal power consumption | 139 W |
| Typical response time | < 1 s |
| Input fuse | 6.3 A (slow-blow, internal) |
| Permissible DC backup fuse | DC: Connect a suitable fuse upstream |
| Recommended breaker for input protection | 10 A ... 16 A (Characteristics B, C, D, K) |

Output data

| | |
|--|--|
| Efficiency | > 84 % |
| 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) |
| 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 |
| Peak switching voltages nominal load | < 50 mV _{PP} (20 MHz) |
| Maximum no-load power dissipation | < 4 W |
| Power loss nominal load max. | < 22 W |
| Connection in parallel | yes, for redundancy and increased capacity |
| Connection in series | yes |

Signal: DC OK active

| | |
|---------------------------|--|
| Output description | $U_{OUT} > 0.9 \times U_N$: High signal |
| Maximum switching voltage | \leq 12 V |

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| | |
|-------------------------|-----------|
| Output voltage | + 12 V DC |
| Maximum inrush current | ≤ 40 mA |
| Continuous load current | ≤ 40 mA |

Signal: 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 |

Connection data

Input

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross-section, rigid min. | 0.2 mm ² |
| Conductor cross-section, rigid 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 |

Output

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross-section, rigid min. | 0.2 mm ² |
| Conductor cross-section, rigid 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 |
| Tightening torque, min | 0.5 Nm |

Signal

| | |
|---------------------------------------|---------------------|
| Conductor cross-section, rigid min. | 0.2 mm ² |
| Conductor cross-section, rigid 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 |
| Screw thread | M3 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |

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Signaling

| | |
|---------------------------|-------------------------|
| Types of signaling | LED |
| | Active switching output |
| | Relay contact |
| Operating voltage display | Green LED |

Signal output: DC OK active

| | |
|------------------------|---|
| Status display | "DC OK" LED green |
| Note on status display | $U_{OUT} < 0.9 \times U_N$: LED flashing |

Signal output: DC OK floating

| | |
|----------------|-------------------|
| Status display | "DC OK" LED green |
|----------------|-------------------|

Electrical properties

| | |
|---------------------------------|---------------------|
| Number of phases | 1 |
| Insulation voltage input/output | 2 kV (routine test) |
| | 4 kV (type test) |

Product properties

| | |
|----------------------------|--------------|
| Product type | Power supply |
| Product family | QUINT POWER |
| MTBF (IEC 61709, SN 29500) | > 500000 h |

Insulation characteristics

| | |
|---------------------|------------------------|
| Protection class | I (with PE connection) |
| Degree of pollution | 2 |

Dimensions

| | |
|--------|--------|
| Width | 85 mm |
| Height | 130 mm |
| Depth | 130 mm |

Installation dimensions

| | |
|----------------------------------|---------------|
| Installation distance right/left | 0 mm / 0 mm |
| Installation distance top/bottom | 50 mm / 50 mm |

Alternative assembly

| | |
|--------|--------|
| Width | 122 mm |
| Height | 88 mm |
| Depth | 88 mm |

Mounting

| | |
|-------------------|--|
| Assembly note | alignable: horizontally 0 mm, vertically 50 mm |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |

Material specifications

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| | |
|------------------|----------------|
| Housing material | Metal |
| Type of housing | AluNox (AlMg1) |

Environmental and real-life conditions

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) |

Standards and regulations

| | |
|--|--------------------------------------|
| Standard – Limitation of mains harmonic currents | EN 61000-3-2 |
| Standard - Electrical safety | EN 62368-1 |
| Standard - Equipment safety | GS (tested safety) |
| Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment | EN 62368-1 |
| Standard – Safety extra-low voltage | EN 62368-1 (SELV) EN 60204 (PELV) |
| Standard - Safe isolation | DIN VDE 0100-410 |

Approvals

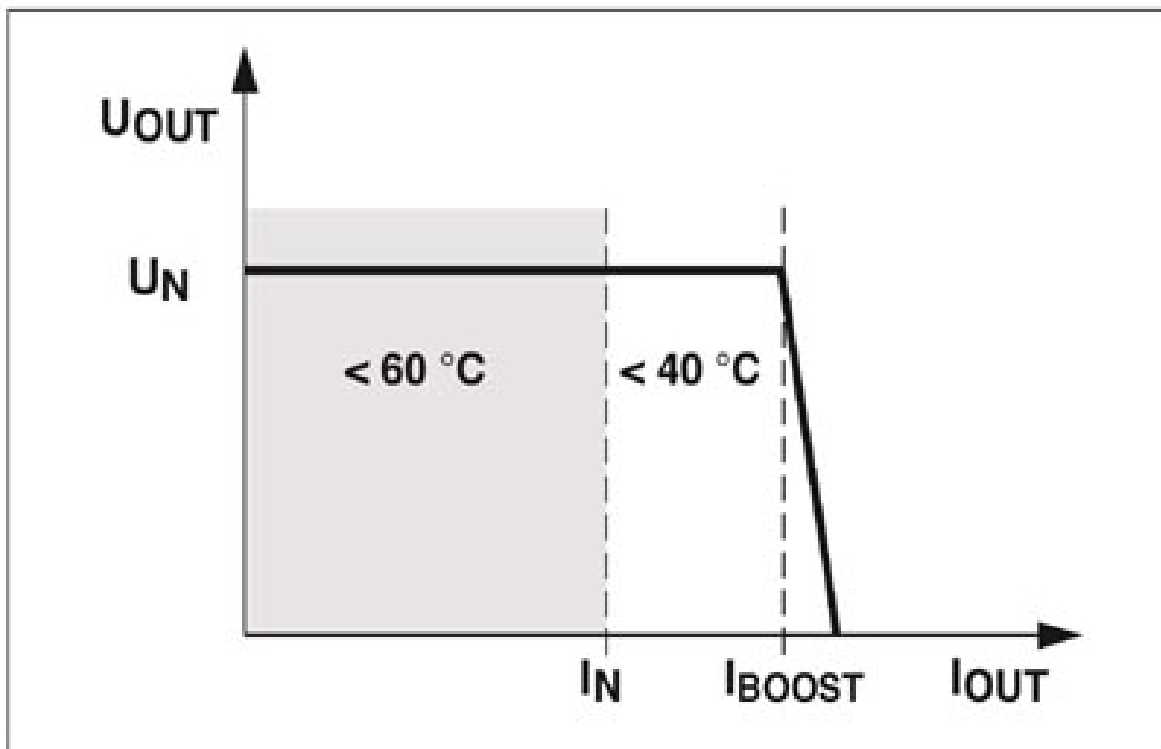
| | |
|-----------------------|---|
| Shipbuilding approval | DNV GL (EMC A) |
| UL approvals | UL/C-UL Recognized UL 60950-1 UL/C-UL listed UL 508 UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D |

EMC data

| | |
|-------------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| EMC requirements for noise emission | EN 61000-6-3 EN 61000-6-4 |
| EMC requirements for noise immunity | EN 61000-6-1 EN 61000-6-2 |

Drawings

Diagram



POWER BOOST

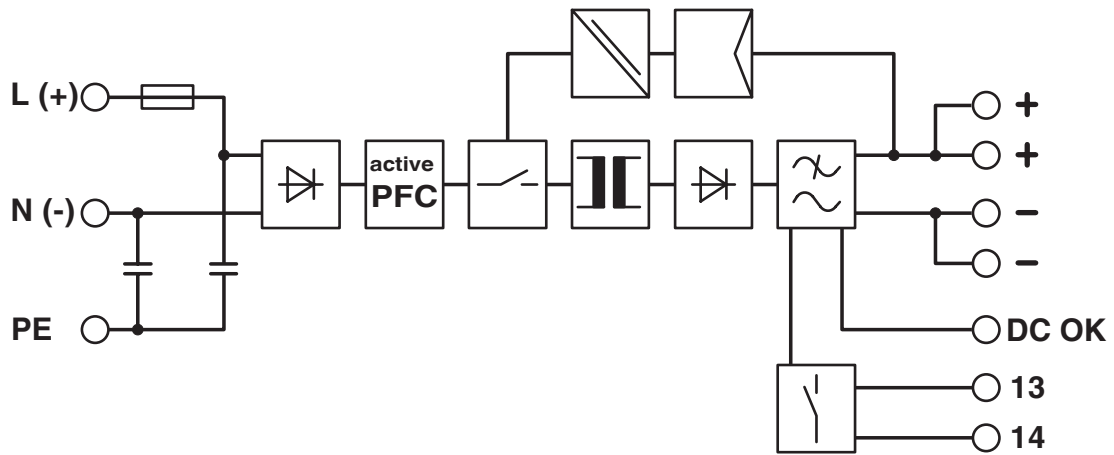
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Block diagram



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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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Environmental product compliance

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-25 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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