

QUINT-PS-100-240AC/48DC/ 5 - Power supply



2866255

<https://www.phoenixcontact.com/us/products/2866255>

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DIN rail power supply unit, primary-switched mode, 1-phase, output: 48 V DC / 5 A



Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2866255 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CM11 |
| Product key | CMPP14 |
| GTIN | 4017918951191 |
| Weight per piece (including packing) | 1,466.6 g |
| Weight per piece (excluding packing) | 1,300 g |
| Customs tariff number | 85044030 |
| Country of origin | TH |

Technical data

Input data

AC operation

| | |
|--|--|
| 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) | 1.5 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. 2.2 A (120 V AC) |
| | 1.2 A (230 V AC) |
| Nominal power consumption | 263 W |
| Protective circuit | Transient surge protection; Varistor |
| Typical response time | < 1 s |
| Input fuse | 6.3 A (slow-blow, internal) |
| Permissible backup fuse | B10 B16 |
| Recommended breaker for input protection | 10 A ... 16 A (Characteristics B, C, D, K) |

Output data

| | |
|---|--|
| Efficiency | > 91 % |
| 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 |
| Max. capacitive load | unlimited |
| Residual ripple | < 30 mV _{PP} |
| Output power | 240 W |
| Peak switching voltages nominal load | < 50 mV _{PP} (20 MHz) |
| Maximum no-load power dissipation | 2 W |
| Power loss nominal load max. | 24 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 24 V |

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| | |
|-------------------------|-----------|
| Output voltage | + 24 V DC |
| Maximum inrush current | ≤ 20 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 | Pluggable 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 | Pluggable 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 |
| Tightening torque max | 0.6 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 |

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

Electrical properties

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

Dimensions

| | |
|--------|--------|
| Width | 85 mm |
| Height | 130 mm |
| Depth | 125 mm |

Alternative assembly

| | |
|--------|--------|
| Width | 122 mm |
| Height | 130 mm |
| Depth | 88 mm |

Mounting

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

Material specifications

| | |
|------------------|----------------|
| 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 – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV) |
| Standard – Limitation of mains harmonic currents | EN 61000-3-2 |
| Standard - Electrical safety | EN 60950-1/VDE 0805 (SELV) |
| | EN 61558-2-17 |
| Standard - Equipment safety | GS (tested safety) |
| Standard - Safe isolation | DIN VDE 0100-410 |
| Standard - Safety of transformers | EN 61558-2-17 |

Approvals

| | |
|--------------|-------------------------------|
| UL approvals | UL/C-UL Recognized UL 60950-1 |
| | UL/C-UL listed UL 508 |

EMC data

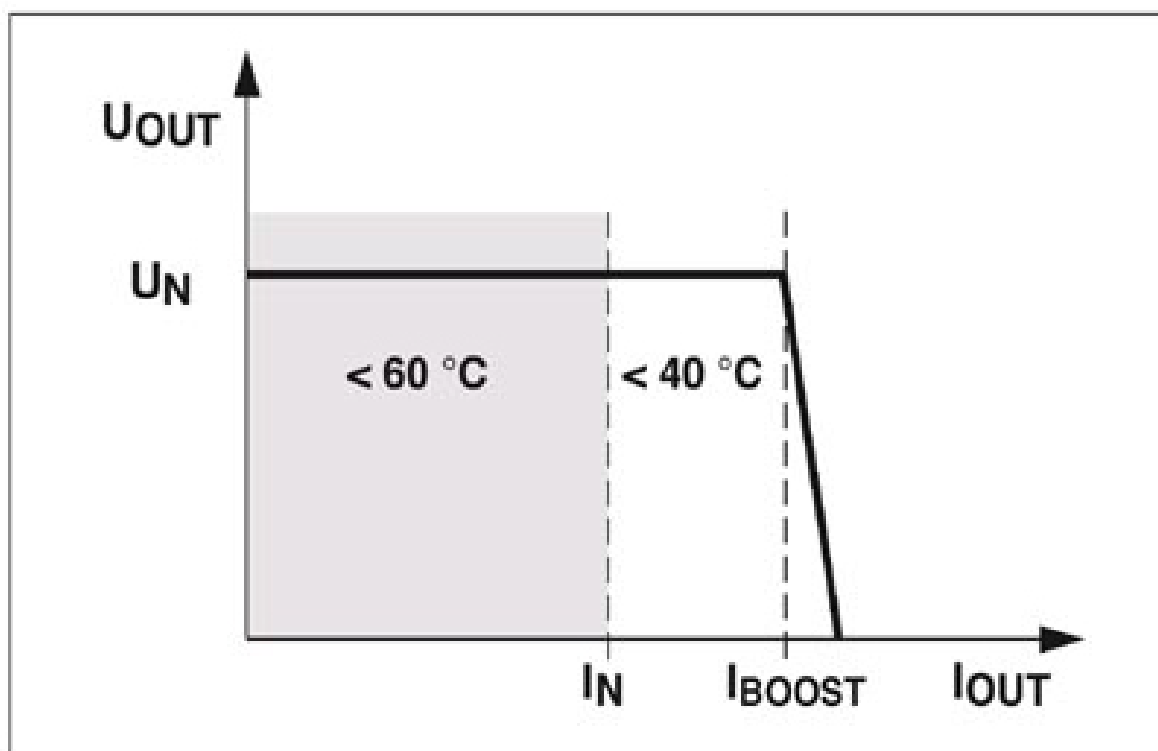
| | |
|-------------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| EMC requirements for noise emission | EN 61000-6-3 |
| | EN 61000-6-4 |
| EMC requirements for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

Noise emission

| | |
|-----------------------|---------------------|
| Standards/regulations | EN 55011 (EN 55022) |
|-----------------------|---------------------|

Drawings

Diagram



POWER BOOST

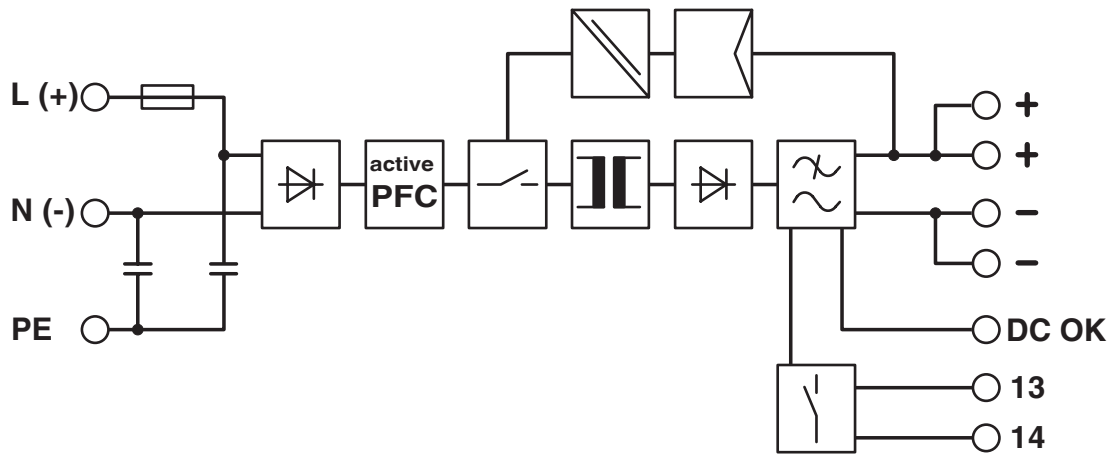
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Block diagram



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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121004 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a), 7(c)-I |

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.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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