

# QUINT4-PS/1AC/48DC/10/CO - Power supply



2904626

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Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, NFC interface, and protective coating, input: 1-phase, output: 48 V DC / 10 A

## Product description

The fourth generation of the high-performance QUINT POWER power supplies ensures superior system availability by means of new functions. Signaling thresholds and characteristic curves can be individually adjusted via the NFC interface. The unique SFB technology and preventive function monitoring of the QUINT POWER power supply increase the availability of your application.

## Your advantages

- SFB Technology selectively trips standard miniature circuit breakers
- Preventive function monitoring indicates critical operating states before errors occur
- Power reserves for easy system extension and starting up difficult loads
- High efficiency, long service life, and maximum immunity with integrated gas discharge tube
- Protective coating offers protection against dust, corrosive gases, and humidity

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2904626       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CMPI14        |
| Product key                          | CMPI14        |
| GTIN                                 | 4055626939216 |
| Weight per piece (including packing) | 1,658 g       |
| Weight per piece (excluding packing) | 1,302 g       |
| Customs tariff number                | 85044095      |
| Country of origin                    | TH            |

## Technical data

### Input data

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| Control input (configurable) Rem | Output power ON/OFF (SLEEP MODE)                                           |
| Default                          | Output power ON (>40 k $\Omega$ /24 V DC/open bridge between Rem and SGnd) |

### AC operation

|                                          |                                                                 |
|------------------------------------------|-----------------------------------------------------------------|
| Nominal input voltage range              | 100 V AC ... 240 V AC                                           |
| Input voltage range                      | 100 V AC ... 240 V AC -15 % ... +10 %                           |
| Derating                                 | < 100 V AC (1 %/V)                                              |
| Electric strength, max.                  | 300 V AC 60 s                                                   |
| Typical national grid voltage            | 120 V AC                                                        |
|                                          | 230 V AC                                                        |
| Voltage type of supply voltage           | AC                                                              |
| Inrush current                           | typ. 11 A (at 25 °C)                                            |
| Inrush current integral ( $I^2t$ )       | < 0.4 A <sup>2</sup> s                                          |
| Inrush current limitation                | 11 A (after 1 ms)                                               |
| AC frequency range                       | 50 Hz ... 60 Hz -10 % ... +10 %                                 |
| Frequency range ( $f_N$ )                | 50 Hz ... 60 Hz -10 % ... +10 %                                 |
|                                          | 16.7 Hz (acc. to EN 50163)                                      |
| Mains buffering time                     | typ. 32 ms (120 V AC)                                           |
|                                          | typ. 32 ms (230 V AC)                                           |
| Current consumption                      | 6.8 A (100 V AC)                                                |
|                                          | 5.5 A (120 V AC)                                                |
|                                          | 2.8 A (230 V AC)                                                |
|                                          | 2.7 A (240 V AC)                                                |
| Nominal power consumption                | 519 VA                                                          |
| Protective circuit                       | Transient surge protection; Varistor, gas-filled surge arrester |
| Switch-on time                           | < 1 s                                                           |
| Typical response time                    | 300 ms (from SLEEP MODE)                                        |
| Input fuse                               | 12 A (slow-blow, internal)                                      |
| Recommended breaker for input protection | 10 A ... 16 A (Characteristic B, C, D, K or comparable)         |
| Discharge current to PE                  | < 3.5 mA                                                        |
|                                          | 1.3 mA (264 V AC, 60 Hz)                                        |

### DC operation

|                                |                                       |
|--------------------------------|---------------------------------------|
| Nominal input voltage range    | 110 V DC ... 250 V DC                 |
| Input voltage range            | 110 V DC ... 250 V DC -18 % ... +40 % |
| Derating                       | < 110 V DC (1 %/V)                    |
| Voltage type of supply voltage | DC                                    |
| Current consumption            | 6 A (110 V DC)                        |
|                                | 2.5 A (250 V DC)                      |

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## Output data

|                                                    |                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------|
| Efficiency                                         | typ. 94 % (120 V AC)                                              |
|                                                    | typ. 95 % (230 V AC)                                              |
| Output characteristic                              | U/I Advanced                                                      |
|                                                    | Smart HICCUP                                                      |
|                                                    | FUSE MODE                                                         |
| Nominal output voltage                             | 48 V DC                                                           |
| Setting range of the output voltage ( $U_{Set}$ )  | 48 V DC ... 56 V DC (constant capacity)                           |
| Nominal output current ( $I_N$ )                   | 10 A                                                              |
| Static Boost ( $I_{Stat.Boost}$ )                  | 12.5 A                                                            |
| Dynamic Boost ( $I_{Dyn.Boost}$ )                  | 15 A (5 s)                                                        |
| Selective Fuse Breaking ( $I_{SFB}$ )              | 60 A (15 ms)                                                      |
| Magnetic circuit breaker tripping                  | A1...A13 / B2...B6 / C1...C3 / Z1...Z10                           |
| Derating                                           | > 60 °C (2.5 %/K)                                                 |
| Feedback voltage resistance                        | ≤ 60 V DC                                                         |
| Protection against overvoltage at the output (OVP) | ≤ 60 V DC                                                         |
| Control deviation                                  | < 0.5 % (Static load change 10 % ... 90 %)                        |
|                                                    | < 2 % (Dynamic load change 10 % ... 90 %, (10 Hz))                |
|                                                    | < 0.25 % (change in input voltage ±10 %)                          |
| Residual ripple                                    | < 70 mV <sub>PP</sub> (with nominal values)                       |
| Short-circuit-proof                                | yes                                                               |
| No-load proof                                      | yes                                                               |
| Output power                                       | 480 W                                                             |
|                                                    | 600 W                                                             |
|                                                    | 720 W                                                             |
| Apparent power                                     | 660 VA (120 V, $U_{OUT} = 48$ V, $I_{OUT} = \text{stat. Boost}$ ) |
|                                                    | 644 VA (230 V, $U_{OUT} = 48$ V, $I_{OUT} = \text{stat. Boost}$ ) |
| Maximum no-load power dissipation                  | < 5 W (120 V AC)                                                  |
|                                                    | < 5 W (230 V AC)                                                  |
| Power loss nominal load max.                       | < 36 W (120 V AC)                                                 |
|                                                    | < 28 W (230 V AC)                                                 |
| Power dissipation SLEEP MODE                       | < 5 W (120 V AC)                                                  |
|                                                    | < 5 W (230 V AC)                                                  |
| Crest factor                                       | typ. 1.54 (120 V AC)                                              |
|                                                    | typ. 1.56 (230 V AC)                                              |
| Rise time                                          | < 1 s ( $U_{Out} = 10$ % ... 90 %)                                |
| Connection in parallel                             | yes, for redundancy and increased capacity                        |
| Connection in series                               | yes                                                               |

## Signal

|                    |                                             |
|--------------------|---------------------------------------------|
| Signal ground SGnd | Reference potential for Out1, Out2, and Rem |
|--------------------|---------------------------------------------|

## Signal Out 1 (configurable)

|         |               |
|---------|---------------|
| Digital | 24 V DC 20 mA |
|---------|---------------|

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|         |                                                          |
|---------|----------------------------------------------------------|
| Default | 24 V DC 20 mA 24 V DC for $U_{Out} > 0.9 \times U_{Set}$ |
|---------|----------------------------------------------------------|

## Signal Out 2 (configurable)

|         |                                                     |
|---------|-----------------------------------------------------|
| Digital | 24 V DC 20 mA                                       |
| Analog  | 4 mA ... 20 mA $\pm 5\%$ (Load $\leq 400\ \Omega$ ) |
| Default | 24 V DC 20 mA 24 V DC for $P_{Out} < P_N$           |

## Signal relay 13/14 (configurable)

|         |                                    |
|---------|------------------------------------|
| Default | closed ( $U_{out} > 0.9 U_{Set}$ ) |
|---------|------------------------------------|

## Connection data

### Input

|                                                                                    |                      |
|------------------------------------------------------------------------------------|----------------------|
| Connection method                                                                  | Screw connection     |
| Conductor cross section, rigid min.                                                | 0.2 mm <sup>2</sup>  |
| Conductor cross section, rigid max.                                                | 6 mm <sup>2</sup>    |
| Conductor cross section flexible min.                                              | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                              | 4 mm <sup>2</sup>    |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, min.    | 0.25 mm <sup>2</sup> |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, max.    | 4 mm <sup>2</sup>    |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, min. | 0.25 mm <sup>2</sup> |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, max. | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                                   | 24                   |
| Conductor cross section AWG max.                                                   | 10                   |
| Stripping length                                                                   | 6.5 mm               |
| Tightening torque, min                                                             | 0.5 Nm               |
| Tightening torque max                                                              | 0.6 Nm               |

### Output

|                                                                                    |                      |
|------------------------------------------------------------------------------------|----------------------|
| Connection method                                                                  | Screw connection     |
| Conductor cross section, rigid min.                                                | 0.2 mm <sup>2</sup>  |
| Conductor cross section, rigid max.                                                | 6 mm <sup>2</sup>    |
| Conductor cross section flexible min.                                              | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                              | 4 mm <sup>2</sup>    |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, min.    | 0.25 mm <sup>2</sup> |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, max.    | 4 mm <sup>2</sup>    |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, min. | 0.25 mm <sup>2</sup> |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, max. | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                                   | 24                   |
| Conductor cross section AWG max.                                                   | 10                   |

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|                        |        |
|------------------------|--------|
| Stripping length       | 6.5 mm |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max  | 0.6 Nm |

## Signal

|                                                                                    |                      |
|------------------------------------------------------------------------------------|----------------------|
| Connection method                                                                  | Push-in connection   |
| Conductor cross section, rigid min.                                                | 0.2 mm <sup>2</sup>  |
| Conductor cross section, rigid max.                                                | 1 mm <sup>2</sup>    |
| Conductor cross section flexible min.                                              | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                              | 1.5 mm <sup>2</sup>  |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, min.    | 0.2 mm <sup>2</sup>  |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, max.    | 0.75 mm <sup>2</sup> |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, min. | 0.2 mm <sup>2</sup>  |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                                   | 24                   |
| Conductor cross section AWG max.                                                   | 16                   |
| Stripping length                                                                   | 8 mm                 |

## Signaling

|                    |                                                   |
|--------------------|---------------------------------------------------|
| Types of signaling | LED                                               |
|                    | Floating signal contact                           |
|                    | Active signal output Out1 (digital, configurable) |
|                    | Active signal output Out2 (analog, configurable)  |
|                    | Remote contact                                    |
|                    | Signal ground SGnd                                |

## Signal output

|                  |                                                      |
|------------------|------------------------------------------------------|
| P <sub>Out</sub> | > 100 % (LED lights up yellow, output power > 480 W) |
|                  | > 75 % (LED lights up green, output power > 360 W)   |
|                  | > 50 % (LED lights up green, output power > 240 W)   |
| U <sub>Out</sub> | > 0.9 x U <sub>Set</sub> (LED lights up green)       |
|                  | < 0.9 x U <sub>Set</sub> (LED flashes green)         |

## Electrical properties

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Number of phases                | 1                                                    |
| Insulation voltage input/output | 4 kV AC (type test)                                  |
|                                 | 2 kV AC (routine test)                               |
| Insulation voltage output / PE  | 0.5 kV DC (type test)                                |
|                                 | 0.5 kV DC (routine test)                             |
| Insulation voltage input / PE   | 3.5 kV AC (type test)                                |
|                                 | 2.4 kV AC (routine test)                             |
|                                 | 90.00 kHz ... 110.00 kHz (Auxiliary converter stage) |

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|                     |                                                 |
|---------------------|-------------------------------------------------|
| Switching frequency | 70.00 kHz ... 330.00 kHz (Main converter stage) |
|                     | 50.00 kHz ... 70.00 kHz (PFC stage)             |

## Product properties

|                                    |                           |
|------------------------------------|---------------------------|
| Product type                       | Power supply              |
| Product family                     | QUINT POWER               |
| MTBF (IEC 61709, SN 29500)         | > 1100000 h (25 °C)       |
|                                    | > 676000 h (40 °C)        |
|                                    | > 317000 h (60 °C)        |
| Environmental protection directive | RoHS Directive 2011/65/EU |
|                                    | WEEE                      |
|                                    | Reach                     |

## Insulation characteristics

|                     |   |
|---------------------|---|
| Protection class    | I |
| Degree of pollution | 2 |

## Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 5 A      |
| Temperature     | 40 °C    |
| Time            | 420000 h |
| Additional text | 120 V AC |

## Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 5 A      |
| Temperature     | 40 °C    |
| Time            | 484000 h |
| Additional text | 230 V AC |

## Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 10 A     |
| Temperature     | 25 °C    |
| Time            | 526000 h |
| Additional text | 120 V AC |

## Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 10 A     |
| Temperature     | 25 °C    |
| Time            | 827000 h |
| Additional text | 230 V AC |

## Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 10 A     |
| Temperature     | 40 °C    |
| Time            | 186000 h |
| Additional text | 120 V AC |

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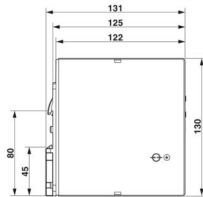
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## Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 10 A     |
| Temperature     | 40 °C    |
| Time            | 292000 h |
| Additional text | 230 V AC |

## Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 70 mm                                                                              |
| Height              | 130 mm                                                                             |
| Depth               | 125 mm                                                                             |

## Installation dimensions

|                                  |               |
|----------------------------------|---------------|
| Installation distance right/left | 5 mm / 5 mm   |
| Installation distance top/bottom | 50 mm / 50 mm |

## Alternative assembly

|        |        |
|--------|--------|
| Width  | 122 mm |
| Height | 130 mm |
| Depth  | 73 mm  |

## Mounting

|                         |                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting type           | DIN rail mounting                                                                                                                                                                               |
| Assembly note           | alignable: $P_N \geq 50\%$ , 5 mm horizontally, 15 mm next to active components, 50 mm vertically<br>alignable: $P_N < 50\%$ , 0 mm horizontally, 40 mm vertically top, 20 mm vertically bottom |
| Mounting position       | horizontal DIN rail NS 35, EN 60715                                                                                                                                                             |
| With protective coating | yes                                                                                                                                                                                             |

## Material specifications

|                                                                    |                        |
|--------------------------------------------------------------------|------------------------|
| Flammability rating according to UL 94 (housing / terminal blocks) | V0                     |
| Housing material                                                   | Metal                  |
| Hood version                                                       | Stainless steel X6Cr17 |
| Side element version                                               | Aluminum               |

## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

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|                                                |                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)                | -25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)                                                                    |
| Ambient temperature (storage/transport)        | -40 °C ... 85 °C                                                                                                |
| Ambient temperature (start-up type tested)     | -40 °C                                                                                                          |
| Maximum altitude                               | ≤ 5000 m (> 2000 m, observe derating)                                                                           |
| Climatic class                                 | 3K3 (in acc. with EN 60721)                                                                                     |
| Max. permissible relative humidity (operation) | ≤ 100 % (at 25 °C, non-condensing)                                                                              |
| Shock                                          | 18 ms, 30g, in each space direction (according to IEC 60068-2-27)                                               |
| Vibration (operation)                          | 5 Hz ... 100 Hz resonance search 2.3g, 90 min., resonance frequency 2.3g, 90 min. (according to DNV GL Class C) |
| Temp code                                      | T4 (-25 ... +70 °C; > 60 °C, Derating: 2,5 %/K)                                                                 |

## Standards and regulations

|                                                                                        |                                    |
|----------------------------------------------------------------------------------------|------------------------------------|
| Rail applications                                                                      | EN 50121-3-2                       |
|                                                                                        | EN 50121-4                         |
|                                                                                        | EN 50121-5                         |
|                                                                                        | EN 50163                           |
|                                                                                        | IEC 62236-3-2                      |
|                                                                                        | IEC 62236-4                        |
|                                                                                        | IEC 62236-5                        |
| HART FSK Physical Layer Test Specification Compliance                                  | Output voltage $U_{Out}$ compliant |
| Standard – Limitation of mains harmonic currents                                       | EN 61000-3-2                       |
| Standard - Electrical safety                                                           | IEC 61010-2-201 (SELV)             |
| Standard – Safety extra-low voltage                                                    | IEC 61010-1 (SELV)                 |
|                                                                                        | IEC 61010-2-201 (PELV)             |
| Standard - Safe isolation                                                              | IEC 61558-2-16                     |
|                                                                                        | IEC 61010-2-201                    |
| Standard - safety for equipment for measurement, control, and laboratory use           | IEC 61010-1                        |
| Standard - Safety of transformers                                                      | EN 61558-2-16                      |
| Battery charging                                                                       | DIN 41773-1                        |
| Approval - requirement of the semiconductor industry with regard to mains voltage dips | SEMI F47-0706, EN 61000-4-11       |

## Overvoltage category

|            |                |
|------------|----------------|
| EN 61010-1 | II (≤ 5000 m)  |
| EN 62477-1 | III (≤ 2000 m) |

## Approvals

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| CSA                   | CAN/CSA-C22.2 No. 60950-1-07                          |
|                       | CSA-C22.2 No. 107.1-01                                |
| Shipbuilding approval | DNV GL, PRS, BV, LR, ABS                              |
| SIQ                   | BG (type approved)                                    |
|                       | CB-Scheme (IEC 61010-1, IEC 61010-2-201, IEC 60950-1) |
| UL approvals          | UL Listed UL 508                                      |
|                       | UL/C-UL Recognized UL 60950-1                         |

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|  |                                                                                     |
|--|-------------------------------------------------------------------------------------|
|  | UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) |
|--|-------------------------------------------------------------------------------------|

## 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                                      |
| EMC requirements for power supply   | IEC 61850-3 (G,H)                                 |
|                                     | EN 61000-6-5 (switching devices)                  |

## Conducted noise emission

|                       |                        |
|-----------------------|------------------------|
| Standards/regulations | EN 55016               |
|                       | EN 61000-6-3 (Class B) |

## Noise emission

|                       |                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| Standards/regulations | Additional basic standard EN 61000-6-5 (immunity in switching devices), IEC/EN 61850-3 (power supply) |
|-----------------------|-------------------------------------------------------------------------------------------------------|

## Noise emission

|                       |                        |
|-----------------------|------------------------|
| Standards/regulations | EN 55016               |
|                       | EN 61000-6-3 (Class B) |

## DNV GL conducted noise emissions

|                 |                         |
|-----------------|-------------------------|
| DNV             | Class A                 |
| Additional text | Area power distribution |

## DNV GL noise radiation

|                 |                      |
|-----------------|----------------------|
| DNV             | Class B              |
| Additional text | Bridge and deck area |

## Harmonic currents

|                       |                        |
|-----------------------|------------------------|
| Standards/regulations | EN 61000-3-2           |
|                       | EN 61000-3-2 (Class A) |
| Frequency range       | 0 kHz ... 2 kHz        |

## Flicker

|                       |                 |
|-----------------------|-----------------|
| Standards/regulations | EN 61000-3-3    |
|                       | EN 61000-3-3    |
| Frequency range       | 0 kHz ... 2 kHz |

## Electrostatic discharge

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

## Electrostatic discharge

|                   |                      |
|-------------------|----------------------|
| Contact discharge | 8 kV (Test Level 4)  |
| Discharge in air  | 15 kV (Test Level 4) |

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| Comments                       | Criterion A                             |
|--------------------------------|-----------------------------------------|
| Electromagnetic HF field       |                                         |
| Standards/regulations          | EN 61000-4-3                            |
| Electromagnetic HF field       |                                         |
| Frequency range                | 80 MHz ... 1 GHz                        |
| Test field strength            | 20 V/m (Test Level 3)                   |
| Frequency range                | 1 GHz ... 6 GHz                         |
| Test field strength            | 10 V/m (Test Level 3)                   |
| Comments                       | Criterion A                             |
| Fast transients (burst)        |                                         |
| Standards/regulations          | EN 61000-4-4                            |
| Fast transients (burst)        |                                         |
| Input                          | 4 kV (Test Level 4 - asymmetrical)      |
| Output                         | 4 kV (Test Level 4 - asymmetrical)      |
| Signal                         | 4 kV (Test Level 4 - asymmetrical)      |
| Comments                       | Criterion A                             |
| Surge voltage load (surge)     |                                         |
| Standards/regulations          | EN 61000-4-5                            |
| Surge voltage load (surge)     |                                         |
| Input                          | typ. 3 kV (Test Level 4 - symmetrical)  |
|                                | typ. 6 kV (Test Level 4 - asymmetrical) |
| Output                         | 1 kV (Test Level 3 - symmetrical)       |
|                                | 2 kV (Test Level 3 - asymmetrical)      |
| Signal                         | 4 kV (Test Level 4 - asymmetrical)      |
| Comments                       | Criterion A                             |
| Conducted interference         |                                         |
| Standards/regulations          | EN 61000-4-6                            |
| Conducted interference         |                                         |
| Input/output/signal            | asymmetrical                            |
| Frequency range                | 0.15 MHz ... 80 MHz                     |
| Comments                       | Criterion A                             |
| Voltage                        | 10 V (Test Level 3)                     |
| Power frequency magnetic field |                                         |
| Standards/regulations          | EN 61000-4-8                            |
| Frequency                      | 16.7 Hz                                 |
|                                | 50 Hz                                   |
|                                | 60 Hz                                   |
| Test field strength            | 100 A/m                                 |
| Additional text                | 60 s                                    |

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|                     |                 |
|---------------------|-----------------|
| Comments            | Criterion A     |
| Frequency           | 50 Hz           |
|                     | 60 Hz           |
| Frequency range     | 50 Hz ... 60 Hz |
| Test field strength | 1 kA/m          |
| Additional text     | 3 s             |
| Frequency           | 0 Hz            |
| Test field strength | 300 A/m         |
| Additional text     | DC, 60 s        |

## Voltage dips

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Standards/regulations | EN 61000-4-11                                                    |
| Voltage               | 230 V AC                                                         |
| Frequency             | 50 Hz                                                            |
| Voltage dip           | 70 %                                                             |
| Number of periods     | 0.5 / 1 / 25 / 30 periods                                        |
| Additional text       | Test Level 2                                                     |
| Comments              | Criterion A: 0.5 / 1 / 25 / 30 periods                           |
| Voltage dip           | 40 %                                                             |
| Number of periods     | 5 / 10 / 50 periods                                              |
| Additional text       | Test Level 2                                                     |
| Comments              | Criterion A                                                      |
| Voltage dip           | 0 %                                                              |
| Number of periods     | 0,5 / 1 / 5 / 50 / 250 periods                                   |
| Additional text       | Test Level 2                                                     |
| Comments              | Criterion A: 0.5 / 1 period<br>Criterion B: 5 / 50 / 250 periods |

## Pulse-shape magnetic field

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-9 |
| Test field strength   | 1000 A/m     |
| Comments              | Criterion A  |

## Attenuated sinusoidal oscillations (ring wave)

|                       |                                    |
|-----------------------|------------------------------------|
| Standards/regulations | EN 61000-4-12                      |
| Input                 | 2 kV (Test Level 4 - symmetrical)  |
|                       | 4 kV (Test Level 4 - asymmetrical) |
| Comments              | Criterion A                        |

## Asymmetrical conducted disturbance variables

|                       |                               |
|-----------------------|-------------------------------|
| Standards/regulations | EN 61000-4-16                 |
| Test level 1          | 15 Hz 150 Hz (Test Level 3)   |
| Voltage               | 10 V 1 V                      |
| Test level 2          | 150 Hz 1.5 kHz (Test Level 3) |
| Voltage               | 1 V                           |
| Test level 3          | 1.5 kHz 15 kHz (Test Level 3) |

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|              |                               |
|--------------|-------------------------------|
| Voltage      | 1 V 10 V                      |
| Test level 4 | 15 kHz 150 kHz (Test Level 3) |
| Voltage      | 10 V                          |
| Test level 5 | 50 Hz 60 Hz (Test Level 3)    |
| Voltage      | 10 V (Permanent)              |
| Test level 6 | 50 Hz 60 Hz (Test Level 3)    |
| Voltage      | 100 V (1 s)                   |
| Comments     | Criterion A                   |

## Attenuated oscillating wave

|                              |                                     |
|------------------------------|-------------------------------------|
| Standards/regulations        | EN 61000-4-18                       |
| Input, output (test level 1) | 1 MHz (Test Level 3 - symmetrical)  |
| Voltage                      | 1 kV                                |
| Input, output (test level 2) | 10 MHz                              |
| Voltage                      | 1 kV                                |
| Input, output (test level 3) | 1 MHz (Test Level 3 - asymmetrical) |
| Voltage                      | 2.5 kV                              |
| Comments                     | Criterion B                         |

## Criteria

|             |                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Criterion A | Normal operating behavior within the specified limits.                                                                                                     |
| Criterion B | Temporary impairment to operational behavior that is corrected by the device itself.                                                                       |
| Criterion C | Temporary adverse effects on the operating behavior, which the device corrects automatically or which can be restored by actuating the operating elements. |

# QUINT4-PS/1AC/48DC/10/CO - Power supply

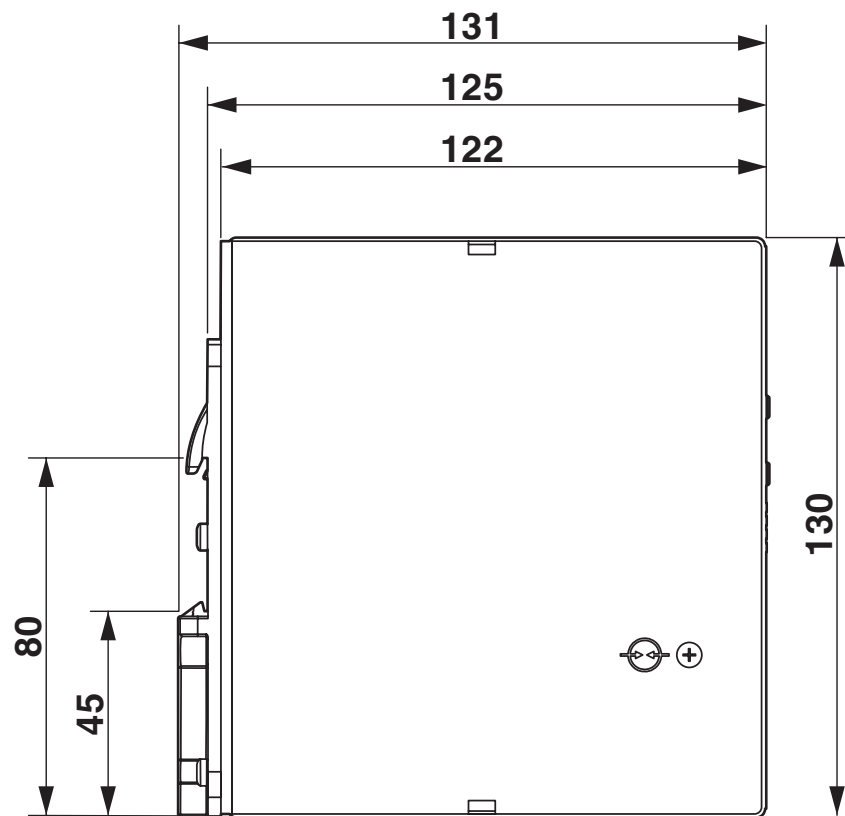
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## Drawings

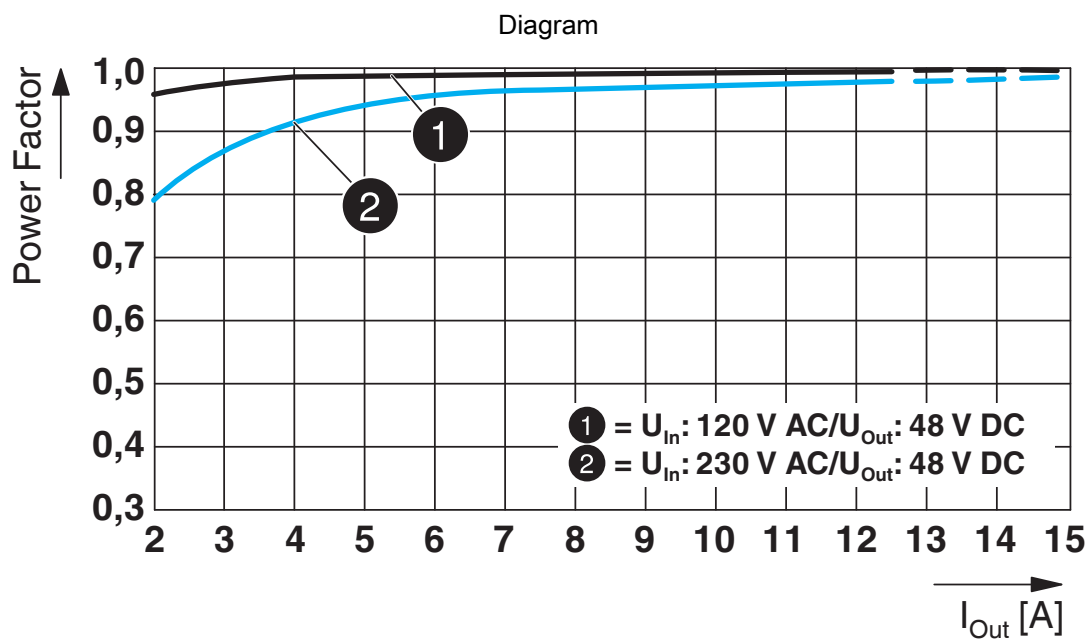
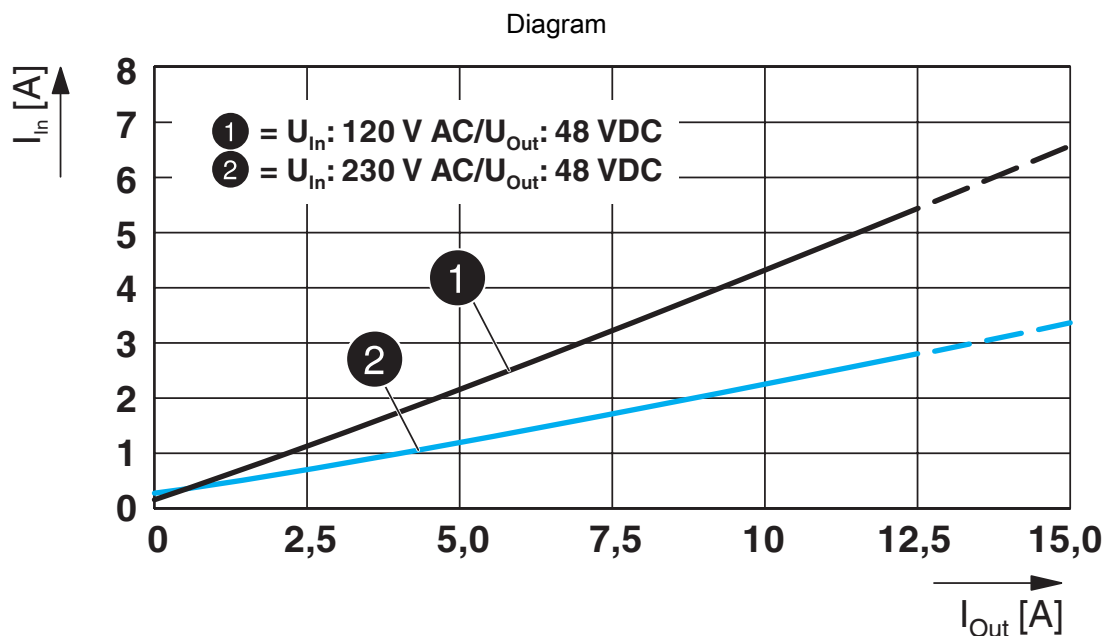
Dimensional drawing



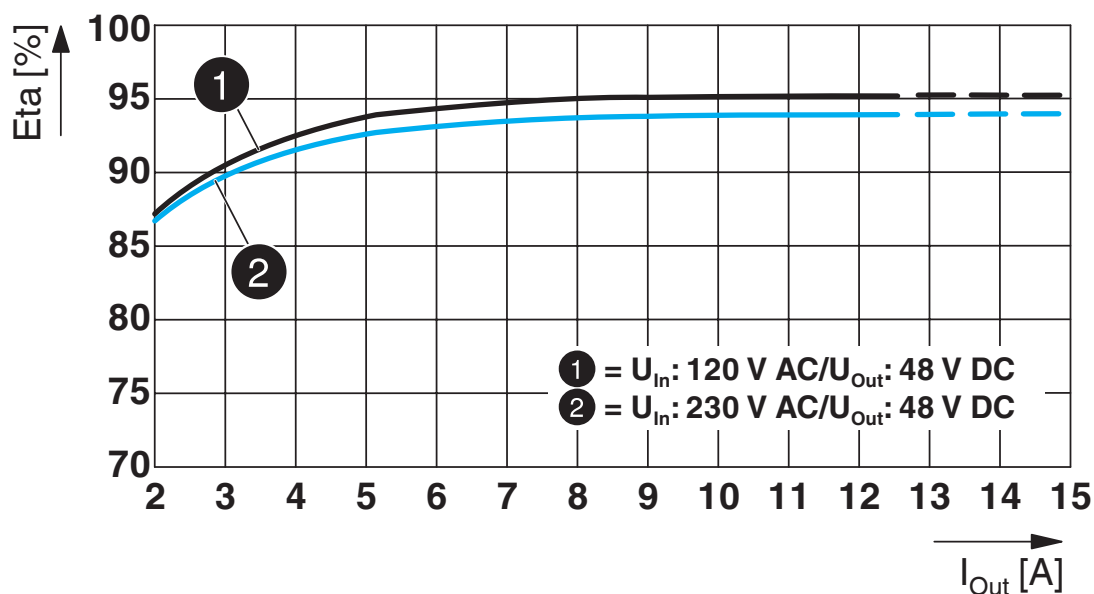
Schematic diagram

## Housing

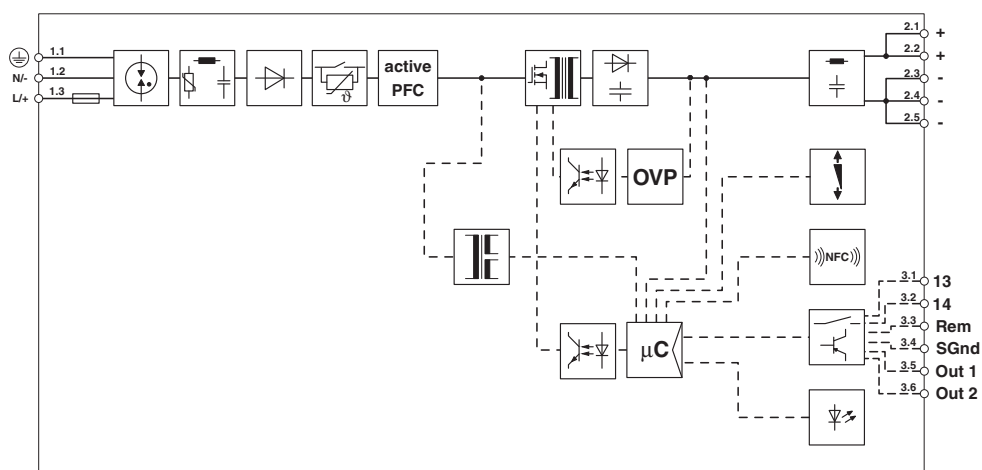




Diagram



Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/2904626>



**cUL Recognized**  
Approval ID: E211944



**UL Recognized**  
Approval ID: E211944



**IECEE CB Scheme**  
Approval ID: SI-8297



**EAC**  
Approval ID: RU S-DE.BL08.W.00764



**LR**  
Approval ID: LR22472797TA



**NK**  
Approval ID: TA21182M



**BV**  
Approval ID: 44621/B0 BV



**EAC**  
Approval ID: RU S-DE.BL08.W.00764



**UL Listed**  
Approval ID: E123528



**cUL Listed**  
Approval ID: E123528

**ABS**

Approval ID: 20-1973616-PDA

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## DNV

Approval ID: TAA00000BV



## cCSAus

Approval ID: 70119409

## SEMI F47

Approval ID: SEMI F47

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27040701 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002540 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|                                         |                            |
|-----------------------------------------|----------------------------|
| EU RoHS                                 |                            |
| Fulfills EU RoHS substance requirements | Yes, No exemptions         |
| EU REACH SVHC                           |                            |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt% |

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