

QUINT-DC-UPS/24DC/10 - Uninterruptible power supply



2866226

<https://www.phoenixcontact.com/us/products/2866226>

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Uninterruptible power supply 24 V DC/10 A, with integrated 1.3 Ah battery module. In the download area, there is a clearly arranged selection table available with load currents and buffer times, as well as charging times after buffer mode.

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2866226 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CM20 |
| Product key | CMUPV3 |
| Catalog page | Page 587 (IF-2009) |
| GTIN | 4017918959722 |
| Weight per piece (including packing) | 1,908 g |
| Weight per piece (excluding packing) | 1,800 g |
| Customs tariff number | 85371091 |
| Country of origin | CN |

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Technical data

Input data

DC operation

| | |
|--------------------------------|--|
| Input voltage | 24 V DC |
| Input voltage range | 22.5 V DC ... 30 V DC |
| Wide-range input | no |
| Input voltage range DC | 22.5 V DC ... 30 V DC |
| Voltage type of supply voltage | DC |
| Buffer period | 1.5 min. (10 A) 20 min. (2 A) |
| Current consumption | approx. 0.1 A 0.5 A (charging process) 10.5 A (max.) |
| Fixed backup threshold | < 22 V DC |
| Variable connect threshold | $(U_{IN} - 1 \text{ V})/0.1 \text{ s}$ |
| Input fuse | 15 A (slow-blow, internal) |

Output data

| | |
|----------------------------------|--|
| Efficiency | > 91 % |
| Nominal output voltage | 24 V DC (Normal operation: $U_{in} - 0.5 \text{ V DC}$, buffer mode: 27.9 to 19.2 V DC) |
| Nominal output current (I_N) | 10 A |
| Bridging time | 2 min. |
| Short-circuit-proof | yes |
| Output power | 240 W |
| Power dissipation | 20 W 8 W |
| Connection in parallel | no |
| Connection in series | yes |

Mains operation

| | |
|----------------------------------|---------|
| Nominal output voltage | 24 V DC |
| Nominal output current (I_N) | 10 A |

Battery operation

| | |
|----------------------------------|---------|
| Nominal output voltage | 24 V DC |
| Nominal output current (I_N) | 10 A |

Signal

| | |
|--------------------|----------|
| Output description | Power OK |
|--------------------|----------|

Signal: floating

| | |
|---------------------------|---------------------------|
| Output description | Alarm |
| Maximum switching voltage | $\leq 30 \text{ V AC/DC}$ |

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| | |
|-------------------------|-------------------|
| Continuous load current | $\leq 1\text{ A}$ |
|-------------------------|-------------------|

Signal: floating

| | |
|---------------------------|--------------------------|
| Output description | Battery Charge |
| Maximum switching voltage | $\leq 30\text{ V AC/DC}$ |
| Continuous load current | $\leq 1\text{ A}$ |

Signal: floating

| | |
|---------------------------|--------------------------|
| Output description | Battery Mode |
| Maximum switching voltage | $\leq 30\text{ V AC/DC}$ |
| Continuous load current | $\leq 1\text{ A}$ |

Energy storage

| | |
|------------------------------------|---|
| Nominal capacity | 1.3 Ah |
| Battery module service life | 6 Years (20 °C) |
| Latest startup date (battery only) | 9 Months (20 °C ... 30 °C) |
| | 6 Months (30 °C ... 40 °C) |
| Memory medium | internal, battery 1.3 Ah |
| Disposal | Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations. |
| Network management | Yes |

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 |

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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 |
| Operating voltage display | Green LED |

Signal output

| | |
|------------------------|-------------------------------|
| Status display | LED "Power OK" green |
| Note on status display | Power OK: LED permanently lit |

Signal output: floating

| | |
|------------------------|----------------------------|
| Status display | LED red |
| Note on status display | Alarm: LED permanently lit |

Signal output: floating

| | |
|------------------------|------------------------------|
| Status display | LED flashing yellow |
| Note on status display | Battery charge: LED flashing |

Signal output: floating

| | |
|------------------------|-----------------------------------|
| Status display | Yellow LED |
| Note on status display | Battery mode: LED permanently lit |

Electrical properties

| | |
|---------------------------------|---------------------|
| Insulation voltage input/output | 2 kV (routine test) |
| | 4 kV (type test) |

Product properties

| | |
|----------------------------|---|
| Product type | DC UPS |
| Disposal | Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations. |
| MTBF (IEC 61709, SN 29500) | > 500000 h |

Insulation characteristics

| | |
|------------------|--------------------------------|
| Protection class | II (in closed control cabinet) |
|------------------|--------------------------------|

Dimensions

| | |
|-------|--------|
| Width | 100 mm |
|-------|--------|

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| | |
|--------|--------|
| Height | 130 mm |
| Depth | 125 mm |

Installation dimensions

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

Mounting

| | |
|-----------------------|--|
| Mounting type | DIN rail mounting |
| Assembly instructions | 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) | 0 °C ... 50 °C |
| Ambient temperature (storage/transport) | 0 °C ... 40 °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 - Electrical safety | EN 60950-1/VDE 0805 (SELV) |
| | EN 61558-2-17 |
| Standard - Safe isolation | DIN VDE 0100-410 |
| Standard - Safety of transformers | EN 61558-2-17 |

Approvals

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

Conformity/Approvals

| | |
|--|---------|
| SIL in accordance with IEC 61508 | 0 |
| Performance level according to ISO 13849 | without |

EMC data

| | |
|-------------------------------|---|
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| Noise immunity | EN 61000-6-2:2005 |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |

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| | |
|----------------|---------------------|
| Noise emission | EN 55011 (EN 55022) |
|----------------|---------------------|

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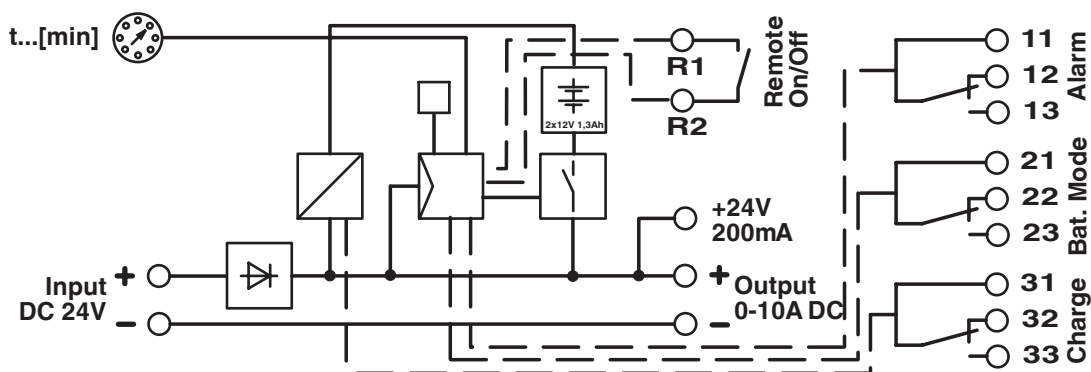


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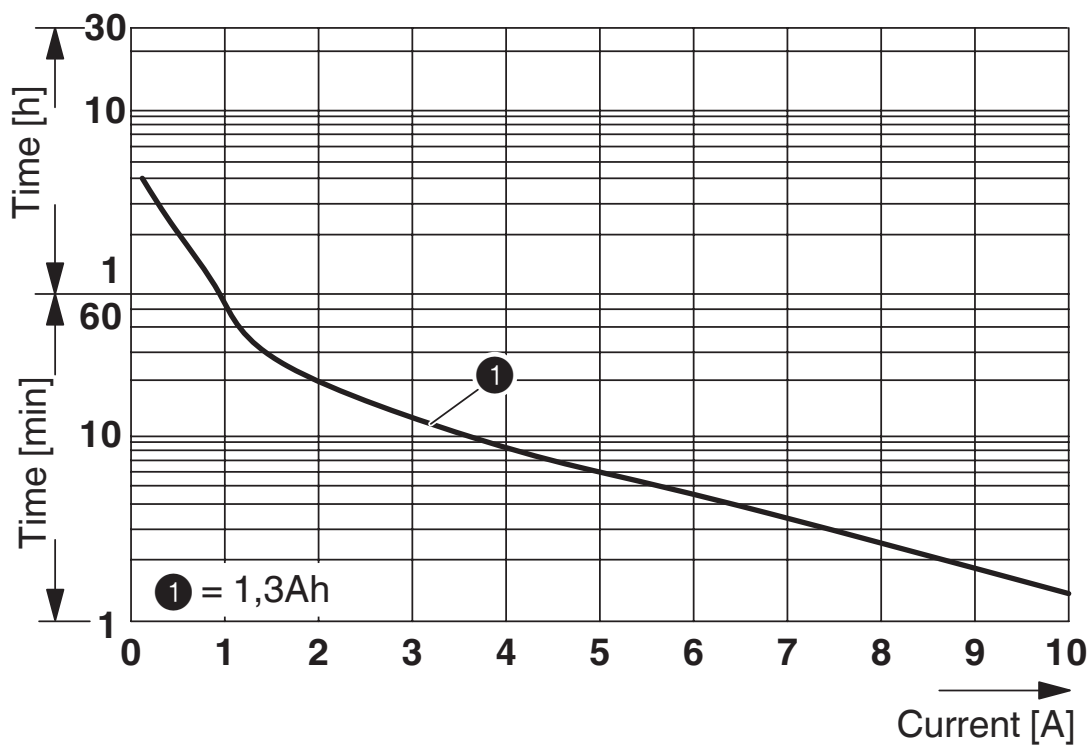
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Drawings

Block diagram



Diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27040705 |
|-------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC000382 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121011 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 3 |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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Accessories

UWA 182/52 - Mounting adapter

2938235

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

UTA 107 - DIN rail adapter

2853983

<https://www.phoenixcontact.com/us/products/2853983>

Universal DIN rail adapter, for screwing on switchgear



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