

# Uninterruptible power supply - QUINT-DC-UPS/24DC/20



2866239

<https://www.phoenixcontact.com/pc/products/2866239>

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Uninterruptible power supply 24 V/20 A. 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.

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# Uninterruptible power supply - QUINT-DC-UPS/24DC/20



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## Commercial Data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2866239                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to Order (non-returnable) |
| Product Key                          | CMUP43                         |
| Catalog Page                         | Page 587 (IF-2009)             |
| GTIN                                 | 4017918959708                  |
| Weight per Piece (including packing) | 980 g                          |
| Weight per Piece (excluding packing) | 800 g                          |
| Customs tariff number                | 85371091                       |
| Country of origin                    | CN                             |

# Uninterruptible power supply - QUINT-DC-UPS/24DC/20



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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                  | 5 min. (10 A)<br>20 min. (20 A)                        |
| Current consumption            | approx. 0.1 A<br>2 A (charging process)<br>22 A (max.) |
| Fixed backup threshold         | < 22 V DC  |
| Variable connect threshold     | $(U_{IN} - 1 \text{ V})/0.1 \text{ s}$                 |
| Input fuse                     | 25 A (slow-blow, internal)                             |

### Output data

|                                  |  |
|----------------------------------|--|
| Efficiency                       | > 95 %   |
| 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 ( $I_N$ ) | 20 A   |
| Bridging time                    | 20 min.  |
| Output power                     | 480 W  |
| Power dissipation                | 15 W<br>20 W   |
| Connection in parallel           | yes, for increasing the buffer period  |
| Connection in series             | yes  |

#### Mains operation

|                                  |         |
|----------------------------------|---------|
| Nominal output voltage           | 24 V DC |
| Nominal output current ( $I_N$ ) | 20 A    |

#### Battery operation

|                                  |         |
|----------------------------------|---------|
| Nominal output voltage           | 24 V DC |
| Nominal output current ( $I_N$ ) | 20 A    |

#### Signal

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

#### Signal: floating

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

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Signal: floating

|                           |                |
|---------------------------|----------------|
| Output description        | Battery Charge |
| Maximum switching voltage | ≤ 30 V AC/DC   |
| Continuous load current   | ≤ 1 A          |

Signal: floating

|                           |              |
|---------------------------|--------------|
| Output description        | Battery Mode |
| Maximum switching voltage | ≤ 30 V AC/DC |
| Continuous load current   | ≤ 1 A        |

Signal

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

Signal: floating

|                           |              |
|---------------------------|--------------|
| Output description        | Alarm        |
| Maximum switching voltage | ≤ 30 V AC/DC |
| Continuous load current   | ≤ 1 A        |

Signal: floating

|                           |                |
|---------------------------|----------------|
| Output description        | Battery Charge |
| Maximum switching voltage | ≤ 30 V AC/DC   |
| Continuous load current   | ≤ 1 A          |

Signal: floating

|                           |              |
|---------------------------|--------------|
| Output description        | Battery Mode |
| Maximum switching voltage | ≤ 30 V AC/DC |
| Continuous load current   | ≤ 1 A        |

Signal

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

Signal: floating

|                           |              |
|---------------------------|--------------|
| Output description        | Alarm        |
| Maximum switching voltage | ≤ 30 V AC/DC |
| Continuous load current   | ≤ 1 A        |

Signal: floating

|                           |                |
|---------------------------|----------------|
| Output description        | Battery Charge |
| Maximum switching voltage | ≤ 30 V AC/DC   |
| Continuous load current   | ≤ 1 A          |

Signal: floating

|                           |              |
|---------------------------|--------------|
| Output description        | Battery Mode |
| Maximum switching voltage | ≤ 30 V AC/DC |
| Continuous load current   | ≤ 1 A        |

Signal

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

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Signal: floating

|                           |              |
|---------------------------|--------------|
| Output description        | Alarm        |
| Maximum switching voltage | ≤ 30 V AC/DC |
| Continuous load current   | ≤ 1 A        |

Signal: floating

|                           |                |
|---------------------------|----------------|
| Output description        | Battery Charge |
| Maximum switching voltage | ≤ 30 V AC/DC   |
| Continuous load current   | ≤ 1 A          |

Signal: floating

|                           |              |
|---------------------------|--------------|
| Output description        | Battery Mode |
| Maximum switching voltage | ≤ 30 V AC/DC |
| Continuous load current   | ≤ 1 A        |

## Energy storage

|                                    |   |
|------------------------------------|---|
| Nominal capacity range             | 3.4 Ah ... 38 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                      | external, battery 3.4 Ah / 7.2 Ah / 12 Ah |
| Network management                 | Yes                                       |

## Connection data

Input

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross section solid min.    | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.    | 16 mm <sup>2</sup>  |
| Conductor cross section flexible min. | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max. | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 6                   |
| Stripping length                      | 10 mm               |
| Screw thread                          | M4                  |

Output

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross section solid min.    | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.    | 16 mm <sup>2</sup>  |
| Conductor cross section flexible min. | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max. | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 6                   |
| Stripping length                      | 10 mm               |

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|              |    |
|--------------|----|
| Screw thread | M4 |
|--------------|----|

## Signal

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.    | 4 mm <sup>2</sup>   |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| 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              |

## LED 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 | 1 kV (routine test) |
|                                 | 1 kV (type test)    |

## Product properties

|                            |                              |
|----------------------------|------------------------------|
| Product type               | Uninterruptible power supply |
| MTBF (IEC 61709, SN 29500) | > 500000 h                   |

## Insulation characteristics

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

## Dimensions

|        |        |
|--------|--------|
| Width  | 66 mm  |
| Height | 130 mm |

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|       |        |
|-------|--------|
| 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  | 69 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

|                  |                |
|------------------|----------------|
| Color            | aluminium      |
| 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                |
| 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 - 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              |

## Approval data

|                       |   |
|-----------------------|---|
| 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 |

## EMC data

|                               |   |
|-------------------------------|---|
| Low Voltage Directive         | Conformance with Low Voltage Directive 2014/35/EC |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU         |

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|                |                     |
|----------------|---------------------|
| Noise emission | EN 55011 (EN 55022) |
| Noise immunity | EN 61000-6-2:2005   |



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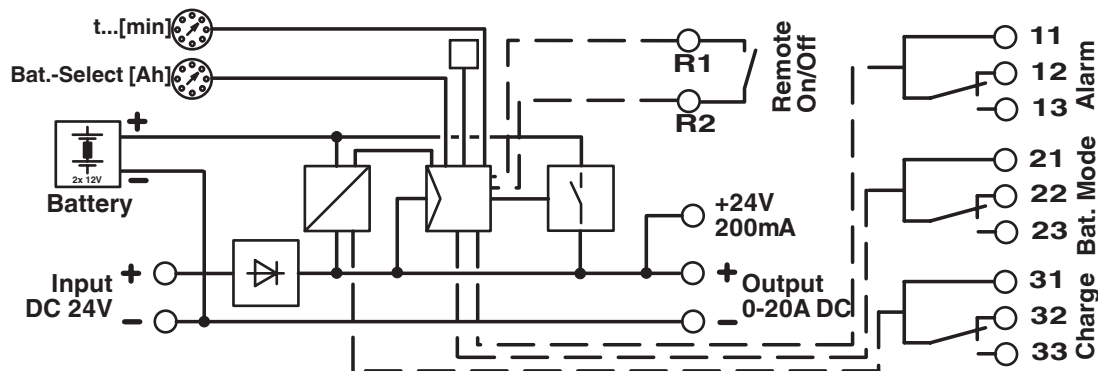


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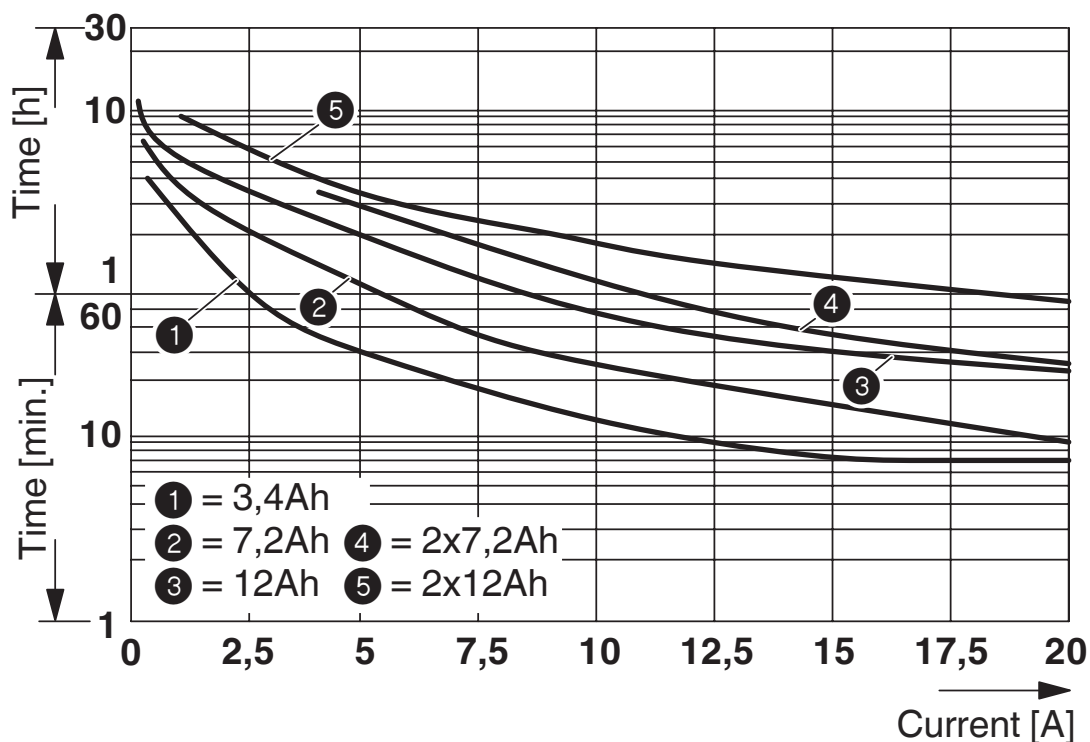
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## Drawings

Block diagram



Diagram



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## Approvals

 cUL Recognized

 UL Recognized

 UL Listed

 cUL Listed

BSH

 GL

Nominal Voltage  $U_N$

Nominal Current  $I_N$

Cross Section AWG

Cross Section  $\text{mm}^2$

-

-

 cUL Listed

 UL Listed

cULus Recognized

cULus Listed

cULus Listed

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27040705 |
| ECLASS-10.0.1 | 27040705 |
| ECLASS-11.0   | 27040705 |

### ETIM

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

### UNSPSC

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

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## Environmental Product Compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 25;  |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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## Accessories

### Fuse

Fuse - SI FORM C 25 A DIN 72581 - 0913757

<https://www.phoenixcontact.com/pc/products/0913757>

Flat-type plug-in fuse, type C, color code: white, nominal current: 25 A



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### DIN rail adapter

DIN rail adapter - UTA 107 - 2853983

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

Universal DIN rail adapter, for screwing on switchgear



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## Mounting adapter

Mounting adapter - UWA 182/52 - 2938235

<https://www.phoenixcontact.com/pc/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.

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## Mounting adapter

Mounting adapter - QUINT-PS-ADAPTERS7/2 - 2938206

<https://www.phoenixcontact.com/pc/products/2938206>



Assembly adapter for QUINT POWER 10A on S7-300 rail

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## Energy storage

Energy storage - QUINT-BAT/24DC/12AH - 2866365

<https://www.phoenixcontact.com/pc/products/2866365>



Energy storage device, lead AGM, VRLA technology, 24 V DC, 12 Ah. Connection via pin cable lug, 14 mm.

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## Energy storage

Energy storage - QUINT-BAT/24DC/ 3.4AH - 2866349

<https://www.phoenixcontact.com/pc/products/2866349>



Energy storage device, lead AGM, VRLA technology, 24 V DC, 4 Ah. Connection via pin cable lug.

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<https://www.phoenixcontact.com/pc/products/2866239>

## Energy storage

Energy storage - QUINT-BAT/24DC/ 7.2AH - 2866352

<https://www.phoenixcontact.com/pc/products/2866352>



Energy storage device, lead AGM, VRLA technology, 24 V DC, 7.2 Ah.  
Connection via pin cable lug, 14 mm.

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