

# QUINT-DC-UPS/24DC/20

Order No.: 2866239



<http://eshop.phoenixcontact.co.uk/phoenix/treeViewClick.do?UID=2866239>

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.



| Commercial data          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| EAN                      |  |
| Pack                     | 1                                                                                   |
| Customs tariff           | 85044081                                                                            |
| Country of Origin        | CN                                                                                  |
| Catalog page information | Page 587 (IF-2009)                                                                  |

## Product notes

WEEE/RoHS-compliant since:  
10/07/2006



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| Technical data         |                       |
|------------------------|-----------------------|
| Input data             |                       |
| Nominal input voltage  | 24 V DC               |
| DC input voltage range | 22.5 V DC ... 30 V DC |

|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| Current consumption                    | Approx. 0.1 A                                       |
|                                        | 2 A (charging process)                              |
|                                        | 22 A (max.)                                         |
| Current consumption (maximum)          | 22 A (max.)                                         |
| Current consumption (idle)             | Approx. 0.1 A                                       |
| Current consumption (charging process) | 2 A (charging process)                              |
| Buffer period                          | (depends on the storage medium, e.g. 45 min / 20 A) |
| Input fuse                             | 25 A (slow-blow, internal)                          |

#### Output data

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Nominal output voltage | 24 V DC (Normal operation: $U_{in} - 0.5$ V DC, buffer mode: 27.9 to 19.2 V DC) |
| Output current         | 20 A                                                                            |
| Connection in parallel | Yes, for increasing the buffer period                                           |
| Connection in series   | Yes                                                                             |

#### General data

|                                                |                                                     |
|------------------------------------------------|-----------------------------------------------------|
| Width                                          | 66 mm                                               |
| Height                                         | 130 mm                                              |
| Depth                                          | 125 mm                                              |
| Width with alternative assembly                | 122 mm                                              |
| Height with alternative assembly               | 130 mm                                              |
|                                                | 69 mm                                               |
| Net weight                                     | 0.8 kg                                              |
| Memory medium                                  | external, battery 3.4 Ah/7.2 Ah/12 Ah               |
| Operating voltage display                      | Green LED                                           |
| Efficiency                                     | > 95 %                                              |
| Insulation voltage input/output                | 2 kV (routine test)                                 |
|                                                | 4 kV (type test)                                    |
| Degree of protection                           | IP20                                                |
| Protection class                               | II (in an enclosed control cabinet)                 |
| MTBF (IEC 61709, SN 29500)                     | > 500000 h                                          |
| Ambient temperature (operation)                | -25 °C ... 70 °C                                    |
| Ambient temperature (storage/transport)        | -40 °C ... 85 °C                                    |
| Max. permissible relative humidity (operation) | 95 % (at 25 °C, no condensation)                    |
| Mounting position                              | horizontal DIN rail NS 35, EN 60715                 |
| Assembly instructions                          | Can be aligned: Horizontally 0 mm, vertically 50 mm |

|                                                                                                                                  |                                                               |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Electromagnetic compatibility                                                                                                    | Conformance with EMC Directive 2004/108/EC                    |
| Noise emission                                                                                                                   | EN 50081-2                                                    |
| Noise immunity                                                                                                                   | EN 61000-6-2:2005                                             |
| Low Voltage Directive                                                                                                            | Conformance with LV directive 2006/95/EC                      |
| Standard - Safety of transformers                                                                                                | EN 61558-2-17                                                 |
| Standard - Electrical safety                                                                                                     | EN 60950-1/VDE 0805 (SELV)                                    |
|                                                                                                                                  | EN 61558-2-17                                                 |
| Shipbuilding approval                                                                                                            | Germanischer Lloyd (EMC 2), ABS, DNV                          |
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV)                                      |
| Standard - Safe isolation                                                                                                        | DIN VDE 0100-410                                              |
|                                                                                                                                  | DIN VDE 0106-1010                                             |
| UL approvals                                                                                                                     | UL/C-UL listed UL 508                                         |
|                                                                                                                                  | UL/C-UL Recognized UL 60950                                   |
|                                                                                                                                  | UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D |

#### 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 stranded min.  | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 10 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min. | 20                  |
| Conductor cross section AWG/kcmil max  | 6                   |
| Stripping length                       | 10 mm               |
| Screw thread                           | M4                  |

#### Connection data, 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 stranded min.  | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 10 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min. | 20                  |
| Conductor cross section AWG/kcmil max  | 6                   |
| Stripping length                       | 10 mm               |

### Signaling

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Output description                     | Power OK                          |
| Status display                         | LED "Power OK" green              |
| Note on status display                 | Power OK: LED permanently lit     |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup>               |
| Conductor cross section solid max.     | 4 mm <sup>2</sup>                 |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup>               |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup>               |
| Conductor cross section AWG/kcmil min. | 24                                |
| Conductor cross section AWG/kcmil max  | 12                                |
| Tightening torque, min                 | 0.5 Nm                            |
| Tightening torque max                  | 0.6 Nm                            |
| Screw thread                           | M3                                |
| Output name                            | floating                          |
| Output description                     | Alarm                             |
| Maximum switching voltage              | ≤ 30 V AC/DC                      |
| Continuous load current                | ≤ 1 A                             |
| Status display                         | LED red                           |
| Note on status display                 | Alarm: LED permanently lit        |
| Output name                            | floating                          |
| Output description                     | Battery Charge                    |
| Maximum switching voltage              | ≤ 30 V AC/DC                      |
| Continuous load current                | ≤ 1 A                             |
| Status display                         | LED yellow, flashing              |
| Note on status display                 | Battery charge: LED flashing      |
| Output name                            | floating                          |
| Output description                     | Battery Mode                      |
| Type of signaling                      | LED, relay contact                |
| Maximum switching voltage              | ≤ 30 V AC/DC                      |
| Continuous load current                | ≤ 1 A                             |
| Status display                         | Yellow LED                        |
| Note on status display                 | Battery mode: LED permanently lit |

## Certificates



Certification

CUL, CUL Listed, DNV, GL, GOST, UL, UL Listed

Certification Ex:

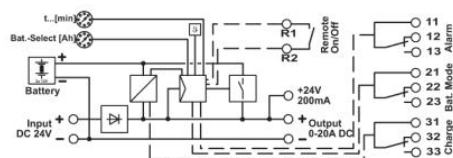
CUL-EX LIS, UL-EX LIS

## Accessories

| Item           | Designation              | Description                                                                                                    |
|----------------|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Fuse</b>    |                          |                                                                                                                |
| 0913757        | SI FORM C 25 A DIN 72581 | Flat-type plug-in fuse, type C, color code: white, nominal current: 25 A                                       |
| <b>General</b> |                          |                                                                                                                |
| 2866349        | QUINT-BAT/24DC/ 3.4AH    | Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 3.4 Ah. Connection via male cable lug, 14 mm. |
| 2866352        | QUINT-BAT/24DC/ 7.2AH    | Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 7.2 Ah. Connection via male cable lug, 14 mm. |
| 2866365        | QUINT-BAT/24DC/12AH      | Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 12 Ah. Connection via male cable lug, 14 mm.  |
| 2938206        | QUINT-PS-ADAPTERS7/2     | Assembly adapter for QUINT POWER 10A on S7-300 rail                                                            |
| 2853983        | UTA 107                  | Universal DIN rail adapter, for screwing on switchgear                                                         |
| 2938235        | UWA 182/52               | Universal wall adapter                                                                                         |

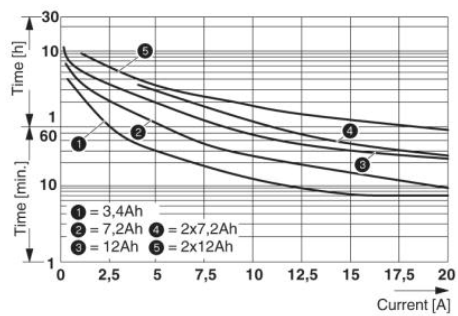
## Drawings

Block diagram



Diagram

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