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# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/ 5/1.3AH - 2320254

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Uninterruptible power supply with IQ technology and integrated power storage for DIN rail mounting, input 24 V DC, output: 24 V DC/5 A, power storage: lead AGM 1.3 Ah, incl. mounted UTA 107/30 universal DIN rail adapter

## Product Features

- ✓ Easy handling thanks to automatic battery detection, tool-free battery replacement during operation, and communication via the IFS interface
- ✓ Reliable starting of difficult loads with the static POWER BOOST power reserve with up to 1.5 times the nominal current permanently
- ✓ Fast tripping of standard circuit breakers with SFB (selective fuse breaking) technology
- ✓ Device suitable for universal use thanks to comprehensive license package and extensive parameterization and diagnostics options



## Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 2420.0 g |
| Custom tariff number                 | 85371091 |
| Country of origin                    | China    |

## Technical data

### Dimensions

|        |        |
|--------|--------|
| Width  | 88 mm  |
| Height | 138 mm |
| Depth  | 125 mm |

### Ambient conditions

|  |                               |
|--|-------------------------------|
| Degree of protection                           | IP20                          |
| Ambient temperature (operation)                | 0 °C ... 40 °C                |
| Ambient temperature (storage/transport)        | -15 °C ... 40 °C              |
| Max. permissible relative humidity (operation) | ≤ 95 % (25°C, non-condensing) |

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## Technical data

### Ambient conditions

|                |                   |
|----------------|-------------------|
| Noise immunity | EN 61000-6-2:2005 |
|----------------|-------------------|

### Input data

|  |                     |
|--|---------------------|
| Nominal input voltage                  | 24 V DC             |
| Input voltage range                    | 18 V DC ... 30 V DC |
| Current consumption (maximum)          | 9.3 A (24 V DC)     |
| Current consumption (idle)             | 9.7 mA              |
| Current consumption (charging process) | 1.7 A               |
| Buffer period                          | 50 min. (1 A)       |
|  | 5 min. (5 A)        |

### Output data (24 V DC mains operation)

|   |   |
|---|---|
| Nominal output voltage                              | 24 V DC   |
| Output voltage range (depends on the input voltage) | 18 V DC ... 30 V DC ( $U_{OUT} = U_{IN} - 0.1 \text{ V DC}$ ) |
| Nominal output current                              | 5 A (0°C ... 40°C)  |
| POWER BOOST   | 7.5 A (-25°C ... 40°C)  |
| SFB technology current reserve                      | 30 A (-25 °C ... 60 °C)                                       |

### Output data (24 V DC battery operation)

|   |  |
|---|--|
| Nominal output voltage                              | 24 V DC  |
| Output voltage range (depends on the input voltage) | 19.2 V DC ... 27.6 V DC ( $U_{OUT} = U_{BAT} - 0.5 \text{ V DC}$ ) |
| Nominal output current                              | 5 A (-25 °C ... 60 °C)   |
| POWER BOOST   | 7.5 A (-25°C ... 40°C)   |
| SFB technology current reserve                      | 32.5 A (-25 °C ... 60 °C)  |

### General output data

|            |  |
|------------|--|
| Efficiency | > 97.1 % (Mains operation, with charged power storage) |
|------------|--|

### General

|                            |   |
|----------------------------|---|
| IQ technology              | Yes   |
| Disposal                   | Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations. They can also be returned to Phoenix Contact or the manufacturer. |
| Net weight                 | 2.2 kg  |
| Memory medium              | Lead rechargeable battery module 1.3 Ah   |
| Protection class           | III   |
| MTBF (IEC 61709, SN 29500) | > 806000 h (40°C)   |
| Mounting position          | horizontal DIN rail NS 35, EN 60715   |
| Assembly instructions      | Can be aligned: horizontal 5 mm, vertical 50 mm   |

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## Technical data

### Connection data, input

|                                       |                            |
|---------------------------------------|----------------------------|
| Connection method                     | Pluggable screw connection |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup>        |
| Conductor cross section solid max.    | 2.5 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.      | 20                         |
| Conductor cross section AWG max.      | 12                         |
| Stripping length                      | 7 mm                       |
| Screw thread                          | M4                         |

### Connection data, output

|                                       |                            |
|---------------------------------------|----------------------------|
| Connection method                     | Pluggable screw connection |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup>        |
| Conductor cross section solid max.    | 2.5 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.      | 20                         |
| Conductor cross section AWG max.      | 12                         |
| Stripping length                      | 7 mm                       |
| Screw thread                          | M4                         |

### Connection data for signaling

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.    | 2.5 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                          | M4                  |

### Standards and Regulations

|                                  |  |
|----------------------------------|--|
| Electromagnetic compatibility    | Conformance with EMC Directive 2004/108/EC         |
| Shock                            | 30g in each direction, according to IEC 60068-2-27 |
| Noise immunity                   | EN 61000-6-2:2005                                  |
| Connection in acc. with standard | CUL  |
| Standards/regulations            | EN 61000-4-3                                       |
|                                  | EN 61000-4-4                                       |
|                                  | EN 61000-4-6                                       |

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## Technical data

### Standards and Regulations

|  |  |
|--|--|
| Standard - Electrical safety   | EN 60950-1/VDE 0805 (SELV)                                   |
|  | EN 61558-2-17  |
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV)                                     |
| UL approvals   | UL/C-UL Recognized UL 60950                                  |
|  | UL Listed UL 508   |
| Vibration (operation)  | < 15 Hz, amplitude $\pm 2.5$ mm (according to IEC 60068-2-6) |
| Low Voltage Directive  | Conformance with LV directive 2006/95/EC                     |
| Rail applications  | EN 50121-4   |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27040702 |
| eCl@ss 4.1 | 27040702 |
| eCl@ss 5.0 | 27242213 |
| eCl@ss 5.1 | 27040603 |
| eCl@ss 6.0 | 27040603 |
| eCl@ss 7.0 | 27040603 |
| eCl@ss 8.0 | 27049201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001039 |
| ETIM 4.0 | EC000382 |
| ETIM 5.0 | EC000382 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211510 |
| UNSPSC 7.0901 | 39121011 |
| UNSPSC 11     | 39121011 |
| UNSPSC 12.01  | 39121011 |
| UNSPSC 13.2   | 39121011 |

## Approvals

### Approvals

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## Approvals

Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / cULus Recognized / cULus Listed

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Ex Approvals


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Approvals submitted

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## Approval details


UL Recognized 

UL Listed 

cUL Recognized 

cUL Listed 

EAC

cULus Recognized 

cULus Listed 

# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/ 5/1.3AH - 2320254

## Drawings

Block diagram

