

# QUINT-UPS/ 24DC/ 24DC/10/3.4AH - Uninterruptible power supply



2320267

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Uninterruptible power supply with IQ Technology and integrated battery for DIN rail mounting, input: 24 V DC, output: 24 V DC/10 A, battery: lead AGM 4 Ah, including mounted universal DIN rail adapter UTA 107/30

## Product description

UPS modules with integrated battery are particularly space-saving: the UPS module and battery are combined in one housing. It's just a case of connecting a power supply upstream.

## Your advantages

- 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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2320267             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | CMUQV3              |
| Product key                          | CMUQV3              |
| Catalog page                         | Page 344 (C-4-2019) |
| GTIN                                 | 4046356554183       |
| Weight per piece (including packing) | 4,590 g             |
| Weight per piece (excluding packing) | 4,114 g             |
| Customs tariff number                | 85371091            |
| Country of origin                    | CN                  |

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## Technical data

### Notes

#### General

|                     |                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note on the battery | This product contains a battery with a limited shelf life that must be charged every few months. The product packaging indicates when the battery must be started up or recharged. The general shelf life can be found in the energy storage devices area under "Latest startup". |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Input data

#### DC operation

|                                |                                             |
|--------------------------------|---------------------------------------------|
| Input voltage                  | 24 V DC                                     |
| Input voltage range            | 18 V DC ... 30 V DC                         |
| Input voltage range DC         | 18 V DC ... 30 V DC                         |
| Voltage type of supply voltage | DC                                          |
| Buffer period                  | 180 min (1 A)<br>10 min (10 A)              |
| Current consumption            | 18.6 A (24 V DC)<br>9.5 mA<br>3.6 A<br>14 A |

### Output data

|                                  |                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Efficiency                       | > 97.6 % (Mains operation, with charged energy storage)<br>96.41 %                                                                                                  |
| Nominal output voltage           | 24 V DC                                                                                                                                                             |
| Output voltage range             | 18 V DC ... 30 V DC                                                                                                                                                 |
| Nominal output current ( $I_N$ ) | 10 A (0 °C ... 40 °C)                                                                                                                                               |
| Output current limit             | > 15 A (Battery operation)                                                                                                                                          |
| Derating                         | 60 °C ... 70 °C (2.5 %/K)                                                                                                                                           |
| Output power                     | 240 W                                                                                                                                                               |
| Power dissipation                | 3.1 W (Mains operation)<br>3.19 W (Mains operation)<br>1.8 W (Mains operation)<br>6.3 W (Battery operation)<br>4 W (Battery operation)<br>5.1 W (Battery operation) |
| Output fuse                      | 1x 25 A                                                                                                                                                             |
| Connection in parallel           | 2                                                                                                                                                                   |
| Connection in series             | no                                                                                                                                                                  |

#### Mains operation

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|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| Nominal output voltage                | 24 V DC                                                       |
| Output voltage range                  | 18 V DC ... 30 V DC ( $U_{OUT} = U_{IN} - 0,1 \text{ V DC}$ ) |
| Nominal output current ( $I_N$ )      | 10 A (0 °C ... 40 °C)                                         |
| POWER BOOST ( $I_{Boost}$ )           | 15 A (0 °C ... 40 °C)                                         |
| Selective Fuse Breaking ( $I_{SFB}$ ) | 60 A (0 °C ... 40 °C)                                         |
| Duration                              | 12 ms (SFB technology)                                        |

## Battery operation

|                                       |                                                                    |
|---------------------------------------|--------------------------------------------------------------------|
| Nominal output voltage                | 24 V DC                                                            |
| Output voltage range                  | 19.2 V DC ... 27.6 V DC ( $U_{OUT} = U_{BAT} - 0,5 \text{ V DC}$ ) |
| Nominal output current ( $I_N$ )      | 10 A (0 °C ... 40 °C)                                              |
| POWER BOOST ( $I_{Boost}$ )           | 15 A (0 °C ... 40 °C)                                              |
| Selective Fuse Breaking ( $I_{SFB}$ ) | 65 A (0 °C ... 40 °C)                                              |
| Duration                              | 15 ms (SFB technology)                                             |

## Signal: Alarm

|                         |                           |
|-------------------------|---------------------------|
| Output description      | Relay                     |
| Output voltage          | $\leq 30 \text{ V AC/DC}$ |
| Continuous load current | $\leq 100 \text{ mA}$     |

## Signal: Battery charge

|                         |                           |
|-------------------------|---------------------------|
| Output description      | Relay                     |
| Output voltage          | $\leq 30 \text{ V AC/DC}$ |
| Continuous load current | $\leq 100 \text{ mA}$     |

## Signal: Battery mode

|                         |                           |
|-------------------------|---------------------------|
| Output description      | Relay                     |
| Output voltage          | $\leq 30 \text{ V AC/DC}$ |
| Continuous load current | $\leq 100 \text{ mA}$     |

## Signal

|                         |                       |
|-------------------------|-----------------------|
| Continuous load current | $\leq 200 \text{ mA}$ |
|-------------------------|-----------------------|

## Energy storage

|                                       |                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------|
| Nominal voltage $U_N$                 | 24 V DC                                                                            |
| End-of-charge voltage                 | 24 V DC ... 29 V DC (temperature compensated)                                      |
| Charging current                      | 1.2 A                                                                              |
| Nominal capacity                      | 4 Ah                                                                               |
| Buffer period                         | 180 min (1 A)<br>10 min (10 A)                                                     |
| Battery module service life           | 6 Years ... 9 Years (20 °C)                                                        |
| Latest startup date (battery only)    | 6 Months (0 °C ... 20 °C)                                                          |
| Latest startup (battery only) - range | 3 Months ... 6 Months (20 °C ... 30 °C)<br>1 Months ... 3 Months (30 °C ... 40 °C) |
| Battery technology                    | VRLA-AGM                                                                           |

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|                    |                                                  |
|--------------------|--------------------------------------------------|
| Memory medium      | VRLA-AGM Battery 4.0 Ah                          |
| Accumulator type   | 2x BB Battery HR4.2-12FR (from UPS V/C-level 06) |
| IQ technology      | Yes                                              |
| Temperature sensor | yes                                              |
| Network management | Yes                                              |

## Connection data

### Input

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross section, rigid min.   | 0.2 mm <sup>2</sup> |
| Conductor cross section, rigid 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.      | 16                  |
| Conductor cross section AWG max.      | 12                  |
| Stripping length                      | 7 mm                |
| Screw thread                          | M4                  |
| 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.   | 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.      | 16                  |
| Conductor cross section AWG max.      | 12                  |
| Stripping length                      | 7 mm                |
| Screw thread                          | M4                  |
| Tightening torque, min                | 0.5 Nm              |
| Tightening torque max                 | 0.6 Nm              |

### Signal

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section, rigid min.   | 0.2 mm <sup>2</sup> |
| Conductor cross section, rigid 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                  |
| Tightening torque, min                | 0.5 Nm              |
| Tightening torque max                 | 0.6 Nm              |

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## Interfaces

|           |                                  |
|-----------|----------------------------------|
| Interface | IFS (Interface system data port) |
|-----------|----------------------------------|

## Signaling

|                    |                    |
|--------------------|--------------------|
| Types of signaling | LED                |
|                    | Relay contact      |
|                    | Interface/software |

### Signal output

|                           |             |
|---------------------------|-------------|
| Signalization designation | Power In OK |
| Status display            | LED         |
| Note on status display    | static on   |
|                           | static on   |

### Signal output: Switching output

|                           |           |
|---------------------------|-----------|
| Signalization designation | Alarm     |
| Status display            | LED       |
| Note on status display    | static on |
| Color                     | red       |
| Note on status display    | static on |

### Signal output: Switching output

|                           |                |
|---------------------------|----------------|
| Signalization designation | Battery charge |
| Status display            | LED bar graph  |
| Note on status display    | dynamic        |
| Color                     | red/green      |
| Note on status display    | dynamic        |

### Signal output: Switching output

|                           |              |
|---------------------------|--------------|
| Signalization designation | Battery mode |
| Status display            | LED          |
| Note on status display    | static on    |
| Color                     | yellow       |
| Note on status display    | static on    |

## Product properties

|                            |                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type               | DC UPS with integrated battery                                                                                                                      |
| Product family             | QUINT UPS - UPS with integrated battery                                                                                                             |
| Disposal                   | Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations. |
| IQ technology              | Yes                                                                                                                                                 |
| MTBF (IEC 61709, SN 29500) | > 806000 h (40 °C)                                                                                                                                  |

### Insulation characteristics

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

Life expectancy (electrolytic capacitors)

|      |          |
|------|----------|
| Time | 295585 h |
|------|----------|

## Dimensions

|        |        |
|--------|--------|
| Width  | 120 mm |
| Height | 169 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 note     | alignable: horizontal 5 mm, vertical 50 mm |
| Mounting position | horizontal DIN rail NS 35, EN 60715        |

## Material specifications

|                      |                                |
|----------------------|--------------------------------|
| Housing material     | Metal                          |
| Housing material     | Steel sheet, zinc-plated       |
| Type of housing      | Steel sheet, zinc-plated       |
| Side element version | Galvanized sheet steel, closed |

## Environmental and real-life conditions

Ambient conditions

|                                                |                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Degree of protection                           | IP20                                                                                                       |
| Ambient temperature (storage/transport)        | -20 °C ... 40 °C                                                                                           |
| Ambient temperature (charge)                   | 0 °C ... 40 °C                                                                                             |
| Ambient temperature (discharge)                | -20 °C ... 50 °C                                                                                           |
| Climatic class                                 | 3K3 (in acc. with EN 60721)                                                                                |
| Max. permissible relative humidity (operation) | ≤ 95 % (25 °C, non-condensing)                                                                             |
| Shock                                          | 18 ms, 30g, in each space direction (according to IEC 60068-2-27)                                          |
| Vibration (operation)                          | < 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)<br>15 Hz ... 150 Hz, 2.3g t <sub>v</sub> = 90 min. |

## Standards and regulations

|                                                                                                                                  |                            |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Rail applications                                                                                                                | EN 50121-4                 |
| 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) |

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|  |               |
|--|---------------|
|  | EN 61558-2-17 |
|--|---------------|

## Approvals

|              |                               |
|--------------|-------------------------------|
| UL approvals | UL/C-UL Recognized UL 60950-1 |
|              | UL Listed UL 508              |

## 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                                      |

### 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) |
| 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           |
| Frequency range     | 1 GHz ... 3 GHz  |
| Test field strength | 10 V/m           |
| Frequency range     | 2 GHz ... 3 GHz  |
| Test field strength | 3 V/m            |
| Comments            | Criterion A      |

### Fast transients (burst)

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

### Fast transients (burst)

|          |                                    |
|----------|------------------------------------|
| Input    | 2 kV (Test Level 3 - asymmetrical) |
| Output   | 2 kV (Test Level 3 - asymmetrical) |
| Signal   | 2 kV (Test Level 4 - asymmetrical) |
| Comments | Criterion A                        |

### Surge voltage load (surge)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-5 |
|-----------------------|--------------|

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## Surge voltage load (surge)

|          |                                    |
|----------|------------------------------------|
| Input    | 1 kV (Test Level 2 - symmetrical)  |
|          | 2 kV (Test Level 3 - asymmetrical) |
| Output   | 1 kV (Test Level 2 - symmetrical)  |
|          | 2 kV (Test Level 3 - asymmetrical) |
| Signal   | 1 kV (Test Level 2 - 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) |

## Emitted interference

|                                                  |                                                                            |
|--------------------------------------------------|----------------------------------------------------------------------------|
| Standards/regulations                            | EN 61000-6-3                                                               |
| Radio interference voltage in acc. with EN 55011 | EN 55011 (EN 55022) Class B, area of application: Industry and residential |
| Emitted radio interference in acc. with EN 55011 | EN 55011 (EN 55022) Class B, area of application: Industry and residential |

## Criteria

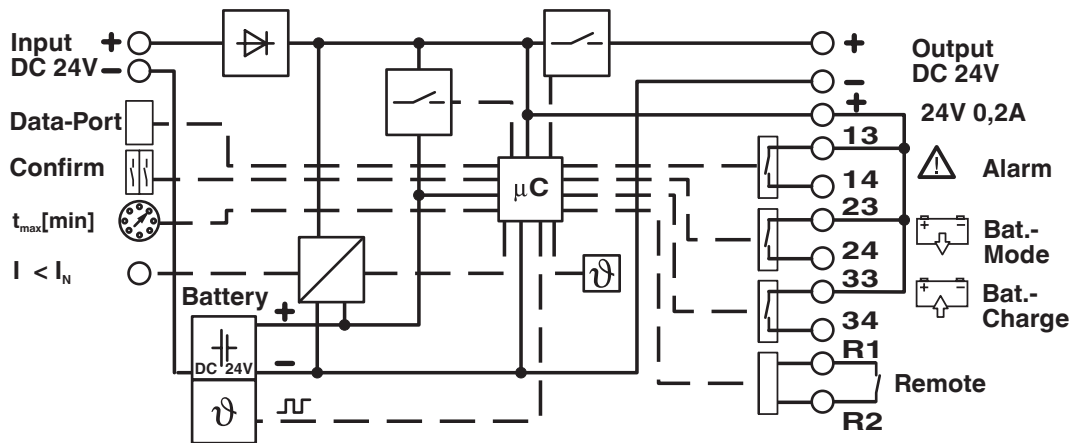
|             |                                                                                      |
|-------------|--------------------------------------------------------------------------------------|
| Criterion A | Normal operating behavior within the specified limits.                               |
| Criterion B | Temporary impairment to operational behavior that is corrected by the device itself. |

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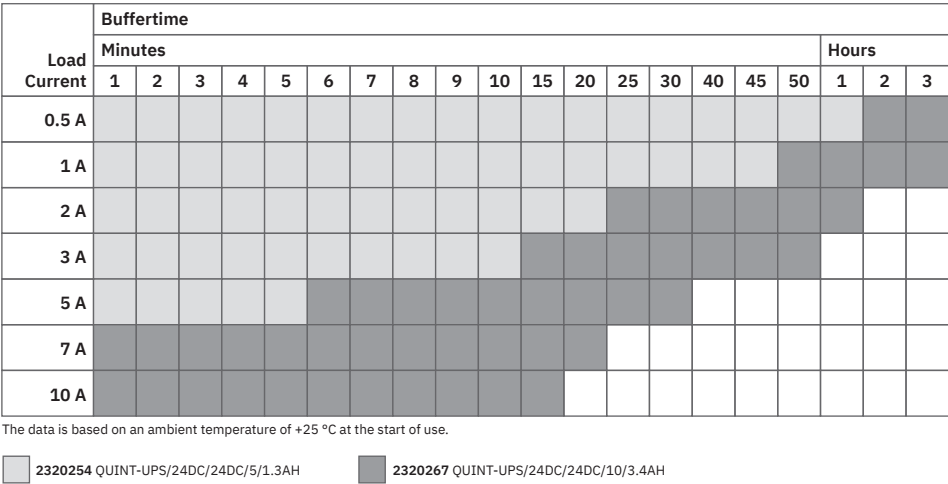
Drawings

Block diagram



Block diagram

Graphic



QUINT DC UPS buffer times with integrated battery

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/2320267>



**cUL Recognized**  
Approval ID: E211944



**UL Recognized**  
Approval ID: E211944



**EAC**  
Approval ID: EAC-Zulassung



**UL Listed**  
Approval ID: E123528



**cUL Listed**  
Approval ID: E123528



**KC**  
Approval ID: R-R-PCK-2320267



**IECEE CB Scheme**  
Approval ID: DE/PTZ/0049



**cUL Listed**  
Approval ID: E199827



**UL Listed**  
Approval ID: E199827

Classifications

|             |  |          |
|-------------|--|----------|
| ECLASS      |  |          |
| ECLASS-13.0 |  | 27040705 |
| ETIM        |  |          |
| ETIM 9.0    |  | EC000382 |
| UNSPSC      |  |          |
| UNSPSC 21.0 |  | 39121000 |

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## Environmental product compliance

### EU RoHS

|                                         |              |
|-----------------------------------------|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-3                                                                                                                                                                                                                            |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | daade506-04eb-4a5c-8132-f3afebb0e666 |

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