

# QUINT4-UPS/24DC/24DC/5/USB - Uninterruptible power supply



2906991

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QUINT DC UPS, IQ Technology, USB, DIN rail mounting, Screw connection, input: 24 V DC, output: 24 V DC / 5 A, charging current: 1.5 A

## Product description

The intelligent QUINT UPS for integration into established industrial networks: your systems continue to be supplied with uninterrupted power, even in the event of a mains failure. The battery management system with IQ Technology and a powerful battery charger ensures superior system availability.

## Your advantages

- Easy integration into networks using PROFINET, EtherNet/IP, EtherCAT® and USB interfaces
- Evaluation of state of health (SOH) and state of charge (SOC), thanks to the intelligent battery management system (BMS)
- Automatic recognition of the battery capacities and technologies (VRLA-WTR, LI-ION)
- Monitoring of output current and voltage, as well as manual connection and disconnection of the system
- SFB Technology selectively trips standard miniature circuit breakers. Loads connected in parallel continue working.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2906991       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CM21          |
| Product key                          | CMUI43        |
| GTIN                                 | 4055626171234 |
| Weight per piece (including packing) | 525.2 g       |
| Weight per piece (excluding packing) | 446 g         |
| Customs tariff number                | 85371091      |
| Country of origin                    | MX            |

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## Technical data

### Input data

|   |   |
|---|---|
| Input voltage   | 24 V DC                                       |
| Input voltage range   | 18 V DC ... 30 V DC                           |
|   | 18 V DC ... 32 V DC                           |
| Electric strength, max.   | 35 V DC (Protected against polarity reversal) |
| Internal input fuse   | no  |
| Voltage type of supply voltage  | DC  |
| Inrush current  | $\leq 7 \text{ A}$ ( $\leq 4 \text{ ms}$ )    |
| Reverse polarity protection   | yes   |
| Fixed backup threshold  | 22 V DC                                       |
| Dynamic activation threshold  | $> 1 \text{ V} / 100 \text{ ms}$              |
| Switch-on time  | max. 3 s                                      |
| Switch-on time during battery operation (Bat.-Start)                                | 8 s   |
| Voltage drop, input/output  | 0.3 V DC                                      |
| Current consumption $I_N$ ( $U_N, I_{OUT} = I_N, I_{charge} = 0$ )                  | 5.1 A   |
| Current consumption $I_{max}$ ( $U_N, I_{OUT} = I_{Stat.Boost}, I_{charge} = max$ ) | 8.3 A   |
| Current consumption $I_{No-Load}$ ( $U_N, I_{OUT} = 0, I_{charge} = 0$ )            | 45 mA   |
| Current consumption $I_{charge}$ ( $U_N, I_{OUT} = 0, I_{charge} = max$ )           | 1.8 A   |
| Power consumption $P_N$ ( $U_N, I_{OUT} = I_N, I_{charge} = 0$ )                    | 121 W   |
| Power consumption $P_{max}$ ( $U_N, I_{OUT} = I_{Stat.Boost}, I_{charge} = max$ )   | 211 W   |
| Power consumption $P_{No-Load}$ ( $U_N, I_{OUT} = 0, I_{charge} = 0$ )              | 1.1 W   |
| Power consumption $P_{charge}$ ( $U_N, I_{OUT} = 0, I_{charge} = max$ )             | 43 W  |

### Output data

|  |   |
|--|---|
| Efficiency                                   | typ. 98 %   |
| Number of outputs                            | 1   |
| Short-circuit-proof                          | yes   |
| No-load proof                                | yes   |
| Switch-over time                             | 0 ms  |
| UPS connection in parallel                   | yes, with decoupling modules (to increase the buffer time and for redundancy) |
| UPS connection in series                     | no  |
| Energy storage device connection in parallel | Yes, 5 (observe line protection)  |
| Energy storage device connection in series   | no  |

### Mains operation

|                      |   |
|----------------------|---|
| Output voltage       | 24 V DC ( $U_{OUT} = U_{IN} - 0.3 \text{ V DC}$ )             |
| Output voltage range | 18 V DC ... 30 V DC ( $U_{Out} = U_{In} - 0.3 \text{ V DC}$ ) |
|                      | 18 V DC ... 32 V DC   |
| Output current $I_N$ | 5 A   |

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|   |              |
|---|--------------|
| Static Boost ( $I_{\text{Stat.Boost}}$ )  | 6.25 A       |
| Dynamic Boost ( $I_{\text{Dyn.Boost}}$ )  | 10 A (5 s)   |
| Selective Fuse Breaking ( $I_{\text{SFB}}$ )  | 30 A (15 ms) |
| Output power $P_{\text{OUT}}$ ( $U_{\text{N}}$ , $I_{\text{OUT}} = I_{\text{N}}$ )                            | 120 W        |
| Output power $P_{\text{OUT}}$ ( $U_{\text{N}}$ , $I_{\text{OUT}} = I_{\text{stat.Boost}}$ )                   | 155 W        |
| Output power $P_{\text{OUT}}$ ( $U_{\text{N}}$ , $I_{\text{OUT}} = I_{\text{dyn.Boost}}$ )                    | 240 W (5 s)  |
| Power dissipation No load ( $U_{\text{N}}$ , $I_{\text{Out}} = 0$ , $I_{\text{Charge}} = 0$ )                 | 1 W          |
| Power dissipation Nominal load ( $U_{\text{N}}$ , $I_{\text{Out}} = I_{\text{N}}$ , $I_{\text{Charge}} = 0$ ) | 3 W          |

## Battery operation

|   |  |
|---|--|
| Output voltage  | 24 V DC ( $U_{\text{OUT}} = U_{\text{BAT}} - 0.3 \text{ V DC}$ )             |
| Output voltage range  | 19 V DC ... 32 V DC ( $U_{\text{OUT}} = U_{\text{BAT}} - 0.3 \text{ V DC}$ ) |
| Output current $I_{\text{N}}$   | 5 A  |
| Static Boost ( $I_{\text{Stat.Boost}}$ )  | 6.25 A   |
| Dynamic Boost ( $I_{\text{Dyn.Boost}}$ ) (24 V DC)  | 10 A (5 s)   |
| Selective Fuse Breaking ( $I_{\text{SFB}}$ )  | 30 A (15 ms)   |
| Output power $P_{\text{OUT}}$ ( $U_{\text{N}}$ , $I_{\text{OUT}} = I_{\text{N}}$ )                            | 120 W  |
| Output power $P_{\text{OUT}}$ ( $U_{\text{N}}$ , $I_{\text{OUT}} = I_{\text{stat.Boost}}$ )                   | 150 W  |
| Output power $P_{\text{OUT}}$ ( $U_{\text{N}}$ , $I_{\text{OUT}} = I_{\text{dyn.Boost}}$ )                    | 240 W (5 s)  |
| Power dissipation No load ( $U_{\text{N}}$ , $I_{\text{Out}} = 0$ , $I_{\text{Charge}} = 0$ )                 | 2 W  |
| Power dissipation Nominal load ( $U_{\text{N}}$ , $I_{\text{Out}} = I_{\text{N}}$ , $I_{\text{Charge}} = 0$ ) | 3 W  |

## Energy storage

|   |                        |
|---|------------------------|
| End-of-charge voltage                           | 32 V DC                |
| End-of-charge voltage (temperature-compensated) | 25 V DC ... 32 V DC    |
| Charging current (configurable)                 | max. 1.5 A             |
| Nominal capacity (without additional charger)   | 0.8 Ah ... 30 Ah       |
| Max. capacity                                   | 40 Ah                  |
| Charging time                                   | 2.5 h (3.4 Ah)         |
| Buffer time                                     | 25 min (3.4 Ah)        |
| Deep discharge protection (configurable)        | 19.2 V DC              |
| Battery technology                              | VRLA, VRLA-WTR, LI-ION |
| Charge characteristic curve                     | $IU_0U$                |
| IQ-Technology                                   | yes                    |
| Temperature sensor                              | yes                    |
| Temperature compensation (configurable)         | 42 mV/K                |

## Connection data

### Input

|          |     |
|----------|-----|
| Position | 1.x |
|----------|-----|

### Conductor connection

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
|-------------------|------------------|

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|  |   |
|--|---|
| rigid  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| flexible                                     | 0.2 mm <sup>2</sup> ... 2 mm <sup>2</sup>   |
| flexible with ferrule without plastic sleeve | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| flexible with ferrule with plastic sleeve    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| rigid (AWG)                                  | 30 ... 12 (Cu)                              |
| Stripping length                             | 6.5 mm (rigid/flexible)                     |
| Tightening torque                            | 0.5 Nm ... 0.6 Nm                           |
| Drive form screw head                        | Slotted L                                   |

## Output

|          |     |
|----------|-----|
| Position | 2.x |
|----------|-----|

## Conductor connection

|  |   |
|--|---|
| Connection method                            | Screw connection                            |
| rigid  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| flexible                                     | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| flexible with ferrule without plastic sleeve | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| flexible with ferrule with plastic sleeve    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| rigid (AWG)                                  | 30 ... 12 (Cu)                              |
| Stripping length                             | 6.5 mm (rigid/flexible)                     |
| Tightening torque                            | 0.5 Nm ... 0.6 Nm                           |
| Drive form screw head                        | Slotted L                                   |

## Signal

|          |     |
|----------|-----|
| Position | 3.x |
|----------|-----|

## Conductor connection

|  |  |
|--|--|
| Connection method                            | Push-in connection   |
| rigid  | 0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>  |
| flexible                                     | 0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>  |
| flexible with ferrule without plastic sleeve | 0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Cu)<br>0.5 mm <sup>2</sup> (recommended) |
| flexible with ferrule with plastic sleeve    | 0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>   |
| rigid (AWG)                                  | 24 ... 16 (Cu)   |
| Stripping length                             | 8 mm (rigid/flexible)  |

## Battery

|          |     |
|----------|-----|
| Position | 4.x |
|----------|-----|

## Connection technology

|                  |  |
|------------------|--|
| Position marking | 4.1 (+), 4.2 (-), 4.3 (⏏   |
|------------------|--|

## Conductor connection

|                   |   |
|-------------------|---|
| Connection method | Screw connection                            |
| rigid             | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| flexible          | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

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|  |                         |
|--|-------------------------|
| flexible with ferrule without plastic sleeve | 0.2 mm² ... 2.5 mm²     |
| flexible with ferrule with plastic sleeve    | 0.2 mm² ... 2.5 mm²     |
| rigid (AWG)                                  | 30 ... 12 (Cu)          |
| Stripping length                             | 6.5 mm (rigid/flexible) |
| Tightening torque                            | 0.5 Nm ... 0.6 Nm       |
| Drive form screw head                        | Slotted L               |

## Interfaces

### Communication

|                      |  |
|----------------------|--|
| Slave address        | 192  |
| Start bit            | 1  |
| Data bits            | 8  |
| Parity               | even   |
| Stop bit             | 1  |
| Interface            | USB  |
| Number of interfaces | 1  |
| Connection method    | MINI-USB Type B                                  |
| Supported protocols  | Modbus/RTU                                       |
| Connection marking   | X1   |
| Locking              | Screw  |
| Transmission physics | USB 2.0  |
| Topology             | Point-to-point                                   |
| Transmission speed   | 9600 baud ... 115200 baud (Default: 115200 baud) |
| Transmission length  | max. 5 m   |
| Access time          | ≤ 2 s  |
| Chipset              | Silicon Labs CP210x                              |
| Electrical isolation | Yes, UL approved                                 |

## Signaling

### LED signaling

|                    |                    |
|--------------------|--------------------|
| Types of signaling | DC OK (green)      |
|                    | Alarm (red)        |
|                    | Bat.-Mode (yellow) |
|                    | SOC (red, green)   |
|                    | Data (red, green)  |

## Product properties

|                            |                     |
|----------------------------|---------------------|
| Product type               | DC UPS              |
| Product family             | QUINT DC UPS        |
| MTBF (IEC 61709, SN 29500) | > 1430000 h (25 °C) |
|                            | > 916900 h (40 °C)  |
|                            | > 480100 h (60 °C)  |

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|                                    |                           |
|------------------------------------|---------------------------|
| Environmental protection directive | RoHS Directive 2011/65/EU |
|                                    | WEEE                      |
|                                    | Reach                     |

## Insulation characteristics

|  |                     |
|--|---------------------|
| Protection class                       | III (without PE)    |
| Overvoltage category (EN 61010-1)      | II ( $\leq 4000$ m) |
| Overvoltage category (IEC 61010-2-201) | II ( $\leq 4000$ m) |
| Degree of pollution                    | 2                   |

## Life expectancy (electrolytic capacitors)

|      |          |
|------|----------|
| Time | 224011 h |
|------|----------|

## Dimensions

### Item dimensions

|  |   |
|--|---|
| Width                                    | 35 mm                                     |
| Height                                   | 130 mm                                    |
| Depth                                    | 125 mm                                    |
| Depth (Device depth (DIN rail mounting)) | 125 mm (Device depth (DIN rail mounting)) |

### Item dimensions with alternative mounting

|        |        |
|--------|--------|
| Width  | 123 mm |
| Height | 130 mm |
| Depth  | 37 mm  |

### Installation dimensions

|  |                                       |
|--|---------------------------------------|
| Installation distance right/left (active)          | 5 mm / 5 mm ( $P_{Out} \geq 50\%$ )   |
| Installation distance right/left (passive)         | 0 mm / 0 mm ( $P_{Out} \geq 50\%$ )   |
| Installation distance right/left (active, passive) | 0 mm / 0 mm ( $P_{Out} \leq 50\%$ )   |
| Installation distance top/bottom (active)          | 50 mm / 50 mm ( $P_{Out} \geq 50\%$ ) |
| Installation distance top/bottom (passive)         | 40 mm / 20 mm ( $P_{Out} \geq 50\%$ ) |
| Installation distance top/bottom (active, passive) | 40 mm / 20 mm ( $P_{Out} \leq 50\%$ ) |

## Mounting

|                   |  |
|-------------------|--|
| Mounting type     | DIN rail mounting  |
| Mounting position | On horizontal DIN rail NS 35/7.5 and NS 35/15 acc. to EN 60715 |

## Material specifications

|  |                        |
|--|------------------------|
| Flammability rating according to UL 94 (housing / terminal blocks) | V0                     |
| Housing material   | Metal                  |
| Hood version   | Stainless steel X6Cr17 |
| Side element version   | Aluminum AlMg3         |

## Environmental and real-life conditions

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## Ambient conditions

|  |   |
|--|---|
| Degree of protection                           | IP20  |
|  | IP20  |
| Ambient temperature (operation)                | -25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)                      |
| Ambient temperature (storage/transport)        | -40 °C ... 85 °C  |
| Ambient temperature (start-up type tested)     | -40 °C  |
| Maximum altitude                               | ≤ 4000 m  |
| Climatic class                                 | 3K3 (EN 60721)  |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, non-condensing)                                 |
| Shock  | 18 ms, 30g, in each space direction (according to IEC 60068-2-27) |
| Vibration (operation)                          | 2.3g  |

## Standards and regulations

### Protective extra-low voltage

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | Protective extra-low voltage |
| Standards/specifications | IEC 61010-1 (SELV)           |
|                          | IEC 61010-2-201 (PELV)       |

## Approvals

### UL

|                |                           |
|----------------|---------------------------|
| Identification | UL/C-UL Listed UL 61010-1 |
|----------------|---------------------------|

### UL

|                |                               |
|----------------|-------------------------------|
| Identification | UL/C-UL Listed UL 61010-2-201 |
|----------------|-------------------------------|

### UL

|                |   |
|----------------|---|
| Identification | UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) |
|----------------|---|

### CSA

|                |                              |
|----------------|------------------------------|
| Identification | CAN/CSA-C22.2 No. 61010-1-12 |
|----------------|------------------------------|

### CSA

|                |                         |
|----------------|-------------------------|
| Identification | CAN/CSA-IEC 61010-2-201 |
|----------------|-------------------------|

### CSA

|                |  |
|----------------|--|
| Identification | CAN/CSA-C22.2 No. 213 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) |
|----------------|--|

### CB scheme

|                |             |
|----------------|-------------|
| Identification | IEC 61010-1 |
|----------------|-------------|

### CB scheme

|                |                 |
|----------------|-----------------|
| Identification | IEC 61010-2-201 |
|----------------|-----------------|

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## DNV

|                |  |
|----------------|--|
| Identification | Class Guideline DNVGL-CG-0339  |
| Note           | Location classes: Temperature D (see Application/Limitation), Humidity B, Vibration A/C, EMC B |

## 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   |
| Noise immunity                      | Immunity in accordance with EN 61000-6-1 (residential), EN 61000-6-2 (industrial), and EN 61000-6-5 (switching devices), IEC/EN 61850-3 (power supply) |

## Noise emission

|                       |   |
|-----------------------|---|
| Standards/regulations | Additional basic standard EN 61000-6-5 (immunity in switching devices), IEC/EN 61850-3 (power supply) |
|-----------------------|---|

## 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 B          |

## Electromagnetic HF field

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

## Electromagnetic HF field

|                     |                       |
|---------------------|-----------------------|
| Frequency range     | 1 GHz ... 6 GHz       |
| Test field strength | 10 V/m (Test Level 3) |
| Frequency range     | 1 GHz ... 6 GHz       |
| Test field strength | 10 V/m (Test Level 3) |
| Comments            | Criterion A           |

## Fast transients (burst)

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

## Fast transients (burst)

|          |                                    |
|----------|------------------------------------|
| Input    | 4 kV (Test Level 4 - asymmetrical) |
| Output   | 4 kV (Test Level 4 - asymmetrical) |
| Signal   | 4 kV (Test Level 4 - asymmetrical) |
| Comments | Criterion B                        |

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## Surge voltage load (surge)

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

## Surge voltage load (surge)

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

## 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) |

## Power frequency magnetic field

|                       |                 |
|-----------------------|-----------------|
| Standards/regulations | EN 61000-4-8    |
| Frequency             | 16.67 Hz        |
|                       | 50 Hz           |
|                       | 60 Hz           |
| Test field strength   | 100 A/m         |
| Additional text       | 60 s            |
| Comments              | Criterion A     |
| Frequency             | 50 Hz           |
|                       | 60 Hz           |
| Frequency range       | 50 Hz ... 60 Hz |
| Test field strength   | 1 kA/m          |
| Additional text       | 3 s             |
| Frequency             | 0 Hz            |
| Test field strength   | 300 A/m         |
| Additional text       | DC, 60 s        |

## Criteria

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



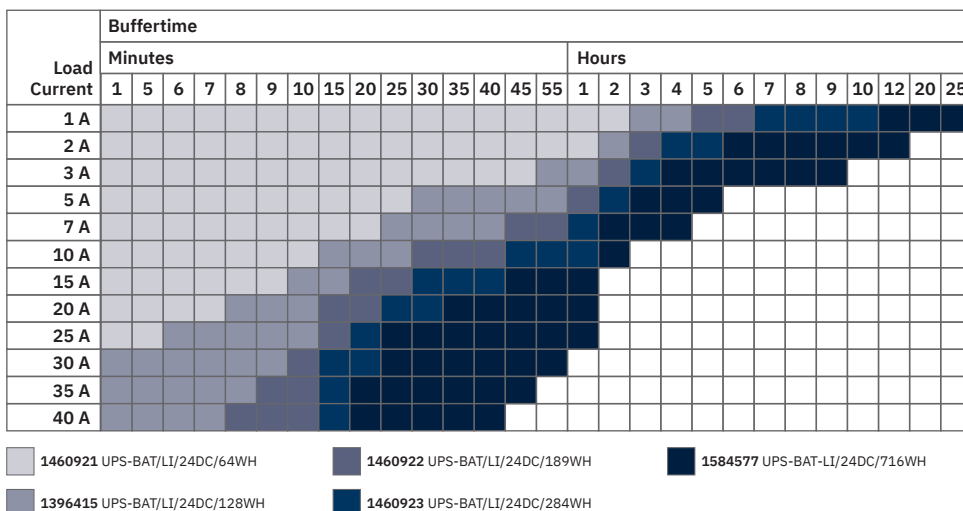
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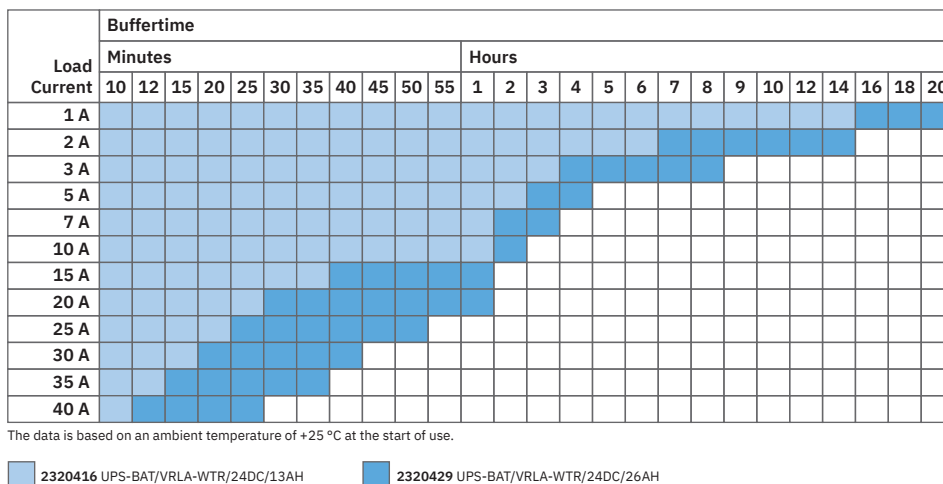
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Graphic



QUINT DC UPS buffer times for LI battery module

Graphic



QUINT DC UPS buffer times and VRLA-WTR battery module

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906991>



**EAC**

Approval ID: RU S-DE.BL08.W.00764



**EAC**

Approval ID: RU-DE.B.00184/20

**DNV**

Approval ID: TAA00001YD



**KC**

Approval ID: R-R-PCK-2906991



**LR**

Approval ID: LR21417906TA-01



**NK**

Approval ID: TA22372M



**BV**

Approval ID: 69394/A1 BV



**RINA**

Approval ID: ELE382621XG

**ABS**

Approval ID: 23-2416092-PDA



**IECEE CB Scheme**

Approval ID: DK-68191-M1-UL



**cULus Listed**

Approval ID: E123528-20171009

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**cULus Listed**

Approval ID: E199827-20180226

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27040705 |
| ECLASS-15.0 | 27040705 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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-25   |
|  | 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.) | Diboron trioxide(CAS: 1303-86-2)     |
|                                     | Lead(CAS: 7439-92-1)                 |
| SCIP                                | bab5c7da-dd2b-421b-b2e7-d7fad6ebb1c8 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 18.75 kg CO2e |
|---------|---------------|

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