

# QUINT4-UPS/24DC/24DC/40/PN - Uninterruptible power supply



2907079

<https://www.phoenixcontact.com/pc/products/2907079>

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QUINT USV, IQ Technology, PROFINET, DIN rail mounting, Screw connection, input: 24 V DC, output: 24 V DC / 40 A, charging current: 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                          | 2907079             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | CMUI43              |
| Catalog page                         | Page 317 (C-4-2019) |
| GTIN                                 | 4055626170039       |
| Weight per piece (including packing) | 744 g               |
| Weight per piece (excluding packing) | 584 g               |
| Customs tariff number                | 85371091            |
| Country of origin                    | CN                  |

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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                                    |
| Internal input fuse                                                                       | no                                         |
| Voltage type of supply voltage                                                            | DC                                         |
| Inrush current                                                                            | $\leq 9 \text{ A}$ ( $\leq 4 \text{ ms}$ ) |
| 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                                                                | 0.5 V DC                                   |
| Current consumption $I_N$ ( $U_N$ , $I_{OUT} = I_N$ , $I_{charge} = 0$ )                  | 40.1 A                                     |
| Current consumption $I_{max}$ ( $U_N$ , $I_{OUT} = I_{Stat.Boost}$ , $I_{charge} = max$ ) | 51.2 A                                     |
| Current consumption $I_{No-Load}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = 0$ )            | 105 mA                                     |
| Current consumption $I_{charge}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = max$ )           | 6.1 A                                      |
| Power consumption $P_N$ ( $U_N$ , $I_{OUT} = I_N$ , $I_{charge} = 0$ )                    | 967 W                                      |
| Power consumption $P_{max}$ ( $U_N$ , $I_{OUT} = I_{Stat.Boost}$ , $I_{charge} = max$ )   | 1122 W                                     |
| Power consumption $P_{No-Load}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = 0$ )              | 2.6 W                                      |
| Power consumption $P_{charge}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = max$ )             | 148 W                                      |

### Output data

|                                              |                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------|
| Efficiency                                   | typ. 97 %                                                             |
| Number of outputs                            | 1                                                                     |
| Nominal output current ( $I_N$ )             | 40 A (-25 °C ... 50 °C)                                               |
| Short-circuit-proof                          | yes                                                                   |
| No-load proof                                | yes                                                                   |
| Switch-over time                             | 0 ms                                                                  |
| Output current limit                         | In mains mode according to connected upstream current limiting device |
|                                              | $> 45 \text{ A}$ (Battery operation)                                  |
| Power dissipation                            | 2.8 W (Mains operation)                                               |
|                                              | 13 W (Mains operation)                                                |
|                                              | 3.51 W (Battery operation)                                            |
|                                              | 16.4 W (Battery operation)                                            |
| UPS connection in parallel                   | no                                                                    |
| UPS connection in series                     | no                                                                    |
| Energy storage device connection in parallel | Yes, 5 (observe line protection)                                      |

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|                                            |    |
|--------------------------------------------|----|
| Energy storage device connection in series | no |
|--------------------------------------------|----|

## Mains operation

|                                                               |                                                   |
|---------------------------------------------------------------|---------------------------------------------------|
| Output voltage                                                | 24 V DC ( $U_{OUT} = U_{IN} - 0.5 \text{ V DC}$ ) |
| Output voltage range                                          | 18 V DC ... 30 V DC                               |
|                                                               | 18 V DC ... 32 V DC                               |
| Output current $I_N$                                          | 40 A                                              |
| Static Boost ( $I_{Stat.Boost}$ )                             | 45 A                                              |
| Dynamic Boost ( $I_{Dyn.Boost}$ )                             | 60 A (5 s)                                        |
| Selective Fuse Breaking ( $I_{SFB}$ )                         | 215 A (15 ms)                                     |
| Output power $P_{OUT}$ ( $U_N$ , $I_{OUT} = I_N$ )            | 960 W                                             |
| Output power $P_{OUT}$ ( $U_N$ , $I_{OUT} = I_{stat.Boost}$ ) | 1080 W                                            |

## Battery operation

|                                                               |                                                    |
|---------------------------------------------------------------|----------------------------------------------------|
| Output voltage                                                | 24 V DC ( $U_{OUT} = U_{BAT} - 0.5 \text{ V DC}$ ) |
| Output voltage range                                          | 19 V DC ... 32 V DC                                |
| Output current $I_N$                                          | 40 A                                               |
| Static Boost ( $I_{Stat.Boost}$ )                             | 45 A                                               |
| Selective Fuse Breaking ( $I_{SFB}$ )                         | 215 A (15 ms)                                      |
| Output power $P_{OUT}$ ( $U_N$ , $I_{OUT} = I_N$ )            | 960 W                                              |
| Output power $P_{OUT}$ ( $U_N$ , $I_{OUT} = I_{stat.Boost}$ ) | 1080 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)                 | 5 A                    |
| Nominal capacity (without additional charger)   | 7 Ah ... 100 Ah        |
| Max. capacity                                   | 135 Ah                 |
| Charging time                                   | 202.5 h                |
| Buffer time                                     | 45 min (38 Ah)         |
| Deep discharge protection                       | 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                           |
| rigid             | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |

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|                                              |                        |
|----------------------------------------------|------------------------|
| flexible                                     | 0.5 mm² ... 16 mm²     |
| flexible with ferrule without plastic sleeve | 0.5 mm² ... 16 mm²     |
| flexible with ferrule with plastic sleeve    | 0.5 mm² ... 16 mm²     |
| rigid (AWG)                                  | 8 ... 6 (Cu)           |
| Stripping length                             | 10 mm (rigid/flexible) |
| Tightening torque                            | 1.2 Nm ... 1.5 Nm      |
| Drive form screw head                        | Slotted L              |

## Output

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

## Conductor connection

|                                              |                                          |
|----------------------------------------------|------------------------------------------|
| Connection method                            | Screw connection                         |
| rigid                                        | 0.5 mm² ... 16 mm²                       |
| flexible                                     | 0.5 mm² ... 16 mm²                       |
| flexible with ferrule without plastic sleeve | 0.5 mm² ... 16 mm²                       |
| flexible with ferrule with plastic sleeve    | 0.5 mm² ... 16 mm²                       |
| rigid (AWG)                                  | 8 ... 6 (Cu)                             |
| Stripping length                             | 10 mm (rigid/flexible)<br>8 mm (Ferrule) |
| Tightening torque                            | 1.2 Nm ... 1.5 Nm                        |
| Drive form screw head                        | Slotted L                                |

## Signal

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

## Conductor connection

|                                              |                                               |
|----------------------------------------------|-----------------------------------------------|
| Connection method                            | Push-in connection                            |
| rigid                                        | 0.2 mm² ... 1 mm²                             |
| flexible                                     | 0.2 mm² ... 1 mm²                             |
| flexible with ferrule without plastic sleeve | 0.2 mm² ... 0.75 mm²<br>0.5 mm² (recommended) |
| flexible with ferrule with plastic sleeve    | 0.2 mm² ... 0.75 mm²                          |
| 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             | 0.5 mm² ... 16 mm² |
| flexible          | 0.5 mm² ... 16 mm² |

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|                                              |                        |
|----------------------------------------------|------------------------|
| flexible with ferrule without plastic sleeve | 0.5 mm² ... 16 mm²     |
| flexible with ferrule with plastic sleeve    | 0.5 mm² ... 16 mm²     |
| rigid (AWG)                                  | 20 ... 6 (Cu)          |
| Stripping length                             | 10 mm (rigid/flexible) |
| Tightening torque                            | 1.2 Nm ... 1.5 Nm      |
| Drive form screw head                        | Slotted L              |

## Interfaces

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| Interface            | PROFINET                                                       |
| Number of interfaces | 2                                                              |
| Connection method    | RJ45                                                           |
| Supported protocols  | PROFINET<br>LLPD                                               |
| Locking              | Locking clip                                                   |
| Transmission physics | Twisted-Pair                                                   |
| Features             | Autonegotiation<br>Autocrossing<br>Autopolarity<br>full duplex |
| Topology             | Star<br>Line                                                   |
| Transmission speed   | 100 Mbps                                                       |
| Transmission length  | max. 100 m                                                     |
| Cycle time           | 1 ms (RT)                                                      |
| Access time          | ≤ 2 s                                                          |
| Standards            | IEEE 802.3<br>IEC 61158<br>IEC 61784-2                         |
| Chipset              | Renesas TPS-1                                                  |
| Electrical isolation | yes                                                            |
| Device ID            | 0142 <sub>hex</sub>                                            |
| Vendor ID            | 00B0 <sub>hex</sub>                                            |

## Signaling

### LED signaling

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

## Product properties

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|                                    |                           |
|------------------------------------|---------------------------|
| Product type                       | DC UPS                    |
| Product family                     | QUINT USV                 |
| MTBF (IEC 61709, SN 29500)         | > 1151000 h (25 °C)       |
|                                    | > 718500 h (40 °C)        |
|                                    | > 365200 h (60 °C)        |
| Environmental protection directive | RoHS Directive 2011/65/EU |
|                                    | WEEE                      |
|                                    | Reach                     |

## Insulation characteristics

|                     |                  |
|---------------------|------------------|
| Protection class    | III (without PE) |
| Degree of pollution | 2                |

## Life expectancy (electrolytic capacitors)

|      |          |
|------|----------|
| Time | 126720 h |
|------|----------|

## Dimensions

### Item dimensions

|        |                                           |
|--------|-------------------------------------------|
| Width  | 47 mm                                     |
| Height | 130 mm                                    |
| Depth  | 125 mm                                    |
|        | 125 mm (Device depth (DIN rail mounting)) |

### Item dimensions with alternative mounting

|        |        |
|--------|--------|
| Width  | 123 mm |
| Height | 130 mm |
| Depth  | 49 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 |

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|                      |                |
|----------------------|----------------|
| Side element version | Aluminum AlMg3 |
|----------------------|----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                                |                                                                   |
|------------------------------------------------|-------------------------------------------------------------------|
| Degree of protection                           | 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 approval

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

### UL approval

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

### UL approval

|                |                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------|
| 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     |
|                | 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 (power station equipment zone), IEC/EN 61850-3 (power supply) |
| Noise emission                      | Additional basic standard EN 61000-6-5 (immunity in power station), IEC/EN 61850-3 (energy 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     | 80 MHz ... 1 GHz      |
| Test field strength | 20 V/m (Test Level 3) |
| 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

|                 |                     |
|-----------------|---------------------|
| I/O/S           | 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

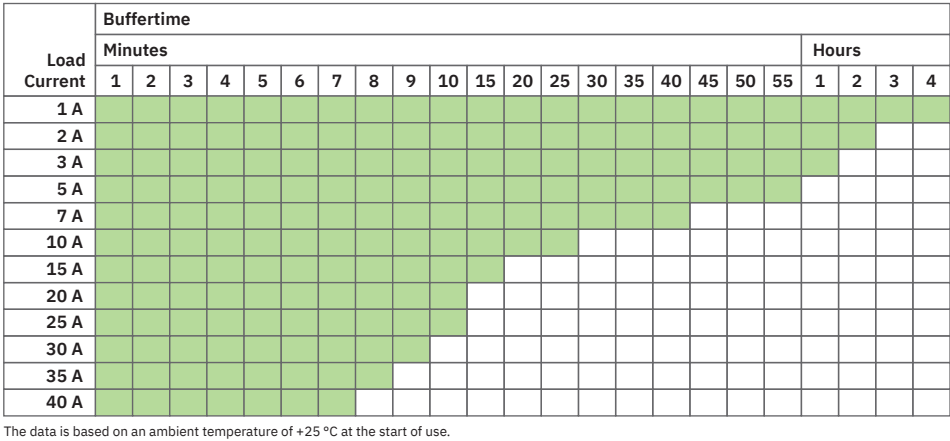
|             |                                                                                      |
|-------------|--------------------------------------------------------------------------------------|
| Criterion A | Normal operating behavior within the specified limits.                        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

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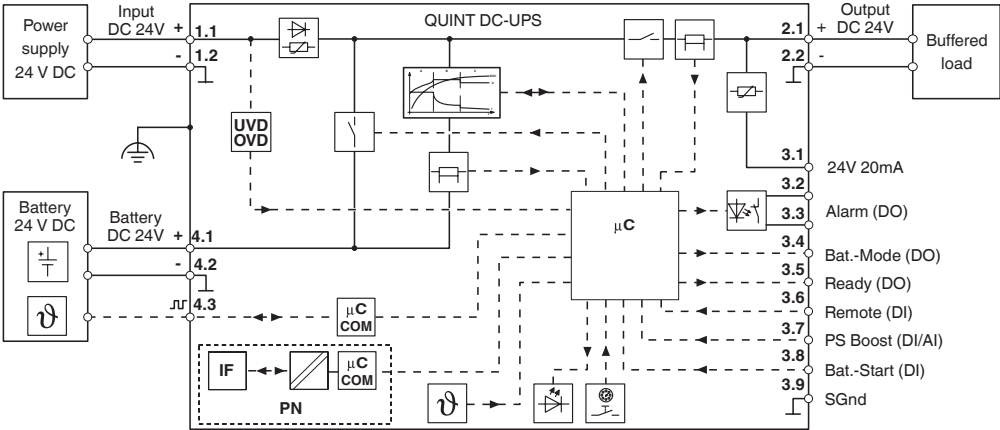
Drawings

Graphic



QUINT DC UPS buffer times for LI battery module

Block diagram



Block diagram

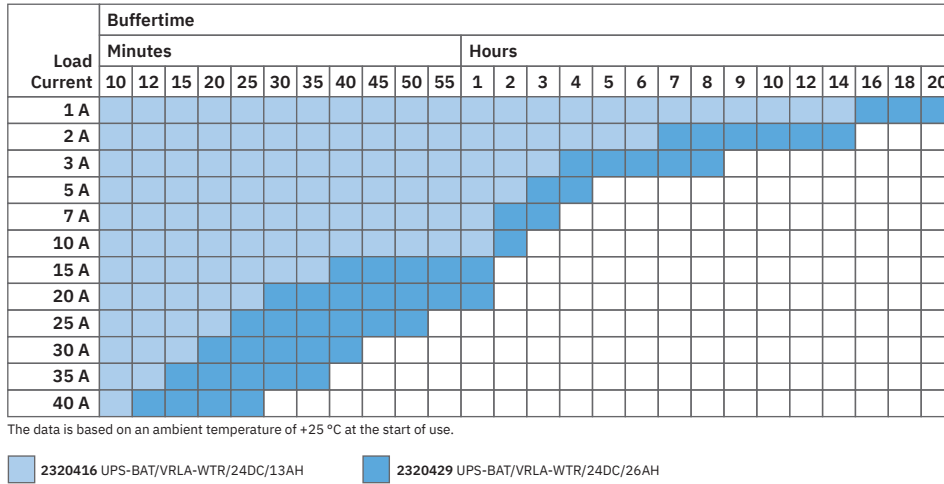
power supply



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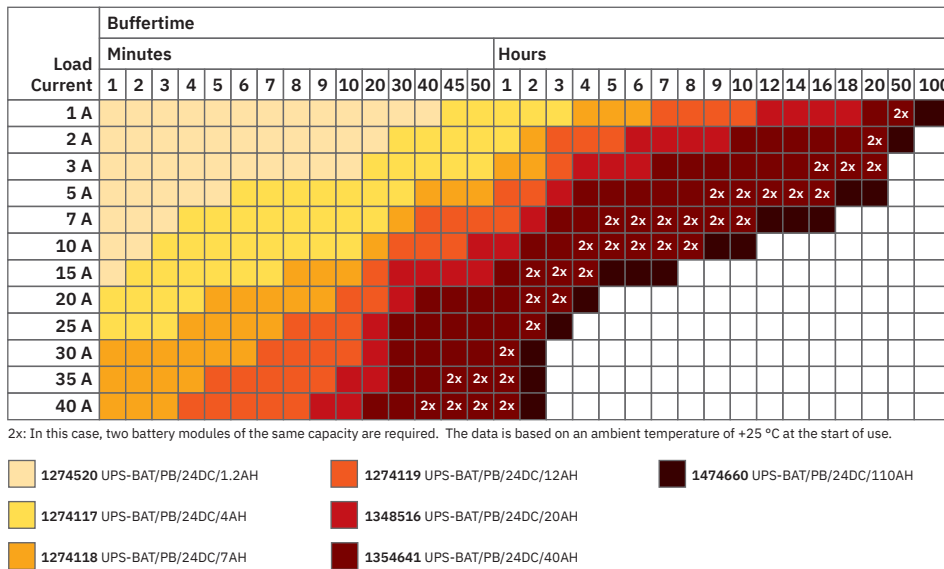
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Graphic



### QUINT DC UPS buffer times and VRLA-WTR battery module

## Graphic



### QUINT DC UPS buffer times for PB battery module

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2907079>



**EAC**

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



**UL Listed**

Approval ID: E123528



**cUL Listed**

Approval ID: E123528



**EAC**

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

**DNV**

Approval ID: TAA00002K4



**KC**

Approval ID: R-R-PCK-2907079



**LR**

Approval ID: LR21417906TA



**NK**

Approval ID: TA22372M



**BV**

Approval ID: 69394/A0 BV



**RINA**

Approval ID: ELE382621XG

**ABS**

Approval ID: 23-2416092-PDA

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**cUL Listed**  
Approval ID: E199827



**UL Listed**  
Approval ID: E199827

**cULus Listed**

**cULus Listed**

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## Classifications

### ECLASS

|                   |          |
|-------------------|----------|
| ECLASS-11.0       | 27040705 |
| ECLASS-13.0       | 27040705 |
| ECLASS-12.0       | 27040705 |
| ECLASS-14.0 ASSET | 27250101 |

### 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-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.)     | Lead(CAS: 7439-92-1)                                                                                                                                                                                                              |
| SCIP                                    | dc321b78-f4cd-4a52-956c-b1371878426c                                                                                                                                                                                              |
| EF3.0 Climate Change                    |                                                                                                                                                                                                                                   |
| CO2e kg                                 | 28.5 kg CO2e                                                                                                                                                                                                                      |

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