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

2906993

https://www.phoenixcontact.com/gb/products/2906993

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CRA-READY



QUINT DC UPS, IQ Technology, PROFINET, DIN rail mounting, Screw connection, input: 24 V DC, output: 24 V DC / 5 A, charging current: 1.5 A. The product is being prepared for compliance with the Cyber Resilience Act (CRA).

## 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.

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 2906993 |
| Packing unit | 1 pc |

| | |
|---|---|
| Minimum order quantity | 1 pc |
| Sales key | CMUI43 |
| Product key | CMUI43 |
| GTIN | 4055626171241 |
| Weight per piece (including packing) | 544.3 g |
| Weight per piece (excluding packing) | 465 g |
| Customs tariff number | 85371091 |
| Country of origin | CN |

## Technical data

### Notes

Note on application

| | |
|---|---|
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

### Input data

DC operation

| | |
|---|---|
| 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 | ≤ 7 A (≤ 4 ms) |
| Reverse polarity protection | yes |
| Fixed backup threshold | 22 V DC |
| Dynamic activation threshold | > 1 V / 100 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) | 105 mA |
| Current consumption $I_{charge}$ ($U_N$, $I_{OUT}$ = 0, $I_{charge}$ = max) | 1.9 A |
| Power consumption $P_N$ ($U_N$, $I_{OUT}$ = $I_N$, $I_{charge}$ = 0) | 123 W |
| Power consumption $P_{max}$ ($U_N$, $I_{OUT}$ = $I_{Stat.Boost}$, $I_{charge}$ = max) | 213 W |
| Power consumption $P_{No-Load}$ ($U_N$, $I_{OUT}$ = 0, $I_{charge}$ = 0) | 2.5 W |
| Power consumption $P_{charge}$ ($U_N$, $I_{OUT}$ = 0, $I_{charge}$ = max) | 44 W |

### Output data

| | |
|---|---|
| Efficiency | typ. 97 % |
| 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 V DC) |
| Output voltage range | 18 V DC ... 30 V DC ($U_{Out}$ = $U_{In}$ - 0.3 V DC) |
| | 18 V DC ... 32 V DC |
| Output current $I_N$ | 5 A |
| Static Boost ($I_{Stat.Boost}$) | 6.25 A |
| Dynamic Boost ($I_{Dyn.Boost}$) | 10 A (5 s) |
| Selective Fuse Breaking ($I_{SFB}$) | 30 A (15 ms) |
| Output power $P_{OUT}$ ($U_N$, $I_{OUT}$ = $I_N$) | 120 W |
| Output power $P_{OUT}$ ($U_N$, $I_{OUT}$ = $I_{stat.Boost}$) | 155 W |
| Output power $P_{OUT}$ ($U_N$, $I_{OUT}$ = $I_{dyn.Boost}$) | 240 W (5 s) |
| Power dissipation No load ($U_N$, $I_{Out}$ = 0, $I_{Charge}$ = 0) | 3 W |
| Power dissipation Nominal load ($U_N$, $I_{Out}$ = $I_N$, $I_{Charge}$ = 0) | 4 W |

Battery operation

| | |
|---|---|
| Output voltage | 24 V DC ($U_{OUT}$ = $U_{BAT}$ - 0.3 V DC) |
| Output voltage range | 19 V DC ... 32 V DC ($U_{OUT}$ = $U_{BAT}$ - 0.3 V DC) |
| Output current $I_N$ | 5 A |
| Static Boost ($I_{Stat.Boost}$) | 6.25 A |
| Dynamic Boost ($I_{Dyn.Boost}$) | 10 A (5 s) |
| Selective Fuse Breaking ($I_{SFB}$) | 30 A (15 ms) |
| Output power $P_{OUT}$ ($U_N$, $I_{OUT}$ = $I_N$) | 120 W |
| Output power $P_{OUT}$ ($U_N$, $I_{OUT}$ = $I_{stat.Boost}$) | 150 W |
| Output power $P_{OUT}$ ($U_N$, $I_{OUT}$ = $I_{dyn.Boost}$) | 240 W (5 s) |

## 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 |
| rigid (Terminal block) | 0.2 mm² ... 2.5 mm² |
| flexible (Klemme) | 0.2 mm² ... 2 mm² |
| flexible with ferrule without plastic sleeve (Terminal block) | 0.2 mm² ... 2.5 mm² |
| flexible with ferrule with plastic sleeve (Terminal block) | 0.2 mm² ... 2.5 mm² |
| rigid (AWG) (Terminal block) | 30 ... 12 (Cu) |
| Stripping length (starr/flexibel) | 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 (Terminal block) | 0.2 mm² ... 2.5 mm² |
| flexible (Klemme) | 0.2 mm² ... 2.5 mm² |
| flexible with ferrule without plastic sleeve (Terminal block) | 0.2 mm² ... 2.5 mm² |
| flexible with ferrule with plastic sleeve (Terminal block) | 0.2 mm² ... 2.5 mm² |
| rigid (AWG) | 30 ... 12 (Cu) |
| Stripping length (starr/flexibel) | 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 (Terminal block) | 0.2 mm² ... 1 mm² |
| flexible (Klemme) | 0.2 mm² ... 1 mm² |
| flexible with ferrule without plastic sleeve (Terminal block) | 0.2 mm² ... 0.75 mm² (Cu) |
| flexible with ferrule without plastic sleeve (recommended) | 0.5 mm² (recommended) |
| flexible with ferrule with plastic sleeve (Terminal block) | 0.2 mm² ... 0.75 mm² |
| rigid (AWG) (Terminal block) | 24 ... 16 (Cu) |
| Stripping length (starr/flexibel) | 8 mm (rigid/flexible) |

Battery

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

Connection technology

| | |
|---|---|
| Position marking | 4.1 (+), 4.2 (-), 4.3 (⎍⎍ IEC DIN) |

Conductor connection

| | |
|---|---|
| Connection method | Screw connection |
| rigid (Terminal block) | 0.2 mm² ... 2.5 mm² |

| | |
|---|---|
| flexible (Klemme) | 0.2 mm² ... 2.5 mm² |
| flexible with ferrule without plastic sleeve (Terminal block) | 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 (starr/flexibel) | 6.5 mm (rigid/flexible) |
| Tightening torque | 0.5 Nm ... 0.6 Nm |
| Drive form screw head | Slotted L |

## Interfaces

| | |
|---|---|
| Interface | PROFINET |
| Number of interfaces | 2 |
| Connection method | RJ45 |
| Supported protocols | PROFINET |
| | LLPD |
| Locking | Locking clip |
| Transmission physics | Twisted-Pair |
| Features | Autonegotiation |
| | Autocrossing |
| | Autopolarity |
| | full duplex |
| Topology | Star |
| | Line |
| Transmission speed | 100 Mbps |
| Transmission length | max. 100 m |
| Cycle time | 1 ms (RT) |
| Access time | ≤ 2 s |
| Standards | IEEE 802.3 |
| | IEC 61158 |
| | IEC 61784-2 |
| Chipset | Renesas TPS-1 |
| Electrical isolation | yes |
| Device ID | $0142_{hex}$ |
| Vendor ID | $00B0_{hex}$ |

## 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) | > 1189000 h (25 °C) |
| | > 736900 h (40 °C) |
| | > 372700 h (60 °C) |
| Special properties | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |
| Environmental protection directive | RoHS Directive 2011/65/EU |
| | WEEE |
| | Reach |

Insulation characteristics

| | |
|---|---|
| Protection class | III (without PE) |
| Overvoltage category (EN 61010-1) | II (≤ 4000 m) |
| Overvoltage category (IEC 61010-2-201) | II (≤ 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 ($P_{Out}$ ≥50% ) |
| Installation distance right/left (passive) | 0 mm / 0 mm ($P_{Out}$ ≥50% ) |
| Installation distance right/left (active, passive) | 0 mm / 0 mm ($P_{Out}$ ≤50 %) |
| Installation distance top/bottom (active) | 50 mm / 50 mm ($P_{Out}$ ≥50% ) |
| Installation distance top/bottom (passive) | 40 mm / 20 mm ($P_{Out}$ ≥50% ) |
| Installation distance top/bottom (active, passive) | 40 mm / 20 mm ($P_{Out}$ ≤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

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

| | |
|---|---|
| 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 |

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 | 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 |

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. |

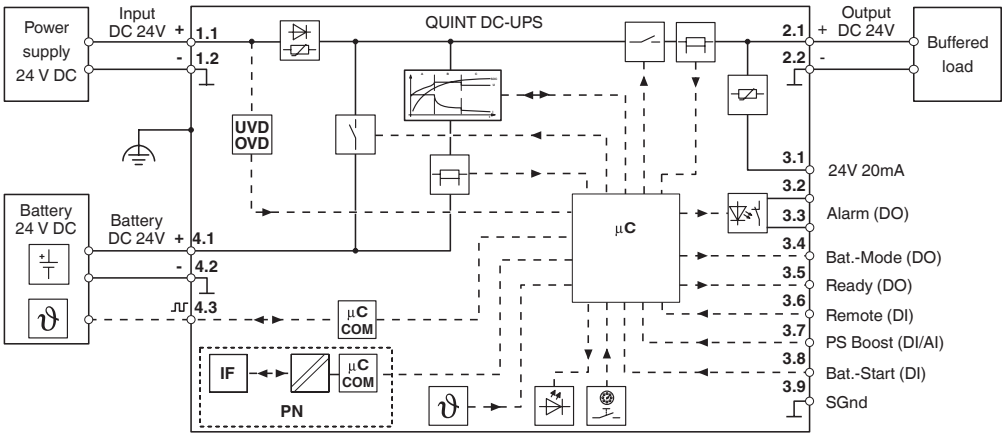
# QUINT4-UPS/24DC/24DC/5/PN - Uninterruptible power supply

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## Drawings

Block diagram




Block diagram

Graphic

| Load Current | Buffertime | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Minutes | | | | | | | | | | | | | | | Hours | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 20 | 30 | 40 | 45 | 50 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 18 | 20 | 50 | 100 |
| 1 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2x | | |
| 2 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2x | | |
| 3 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2x | 2x | 2x | | |
| 5 A | | | | | | | | | | | | | | | | | | | | | | | 2x | 2x | 2x | 2x | 2x | 2x | | | | |
| 7 A | | | | | | | | | | | | | | | | | | | | 2x | 2x | 2x | 2x | 2x | 2x | | | | | | | |
| 10 A | | | | | | | | | | | | | | | | | | | 2x | 2x | 2x | 2x | 2x | | | | | | | | | |
| 15 A | | | | | | | | | | | | | | | | | 2x | 2x | 2x | | | | | | | | | | | | | |
| 20 A | | | | | | | | | | | | | | | | | 2x | 2x | | | | | | | | | | | | | | |
| 25 A | | | | | | | | | | | | | | | | | 2x | | | | | | | | | | | | | | | |
| 30 A | | | | | | | | | | | | | | | | 2x | | | | | | | | | | | | | | | | |
| 35 A | | | | | | | | | | | | | | 2x | 2x | 2x | | | | | | | | | | | | | | | | |
| 40 A | | | | | | | | | | | | | 2x | 2x | 2x | 2x | | | | | | | | | | | | | | | | |

2x: In this case, two battery modules of the same capacity are required. The data is based on an ambient temperature of +25 °C at the start of use.

**1274520** UPS-BAT/PB/24DC/1.2AH

**1274119** UPS-BAT/PB/24DC/12AH

**1474660** UPS-BAT/PB/24DC/110AH

**1274117** UPS-BAT/PB/24DC/4AH

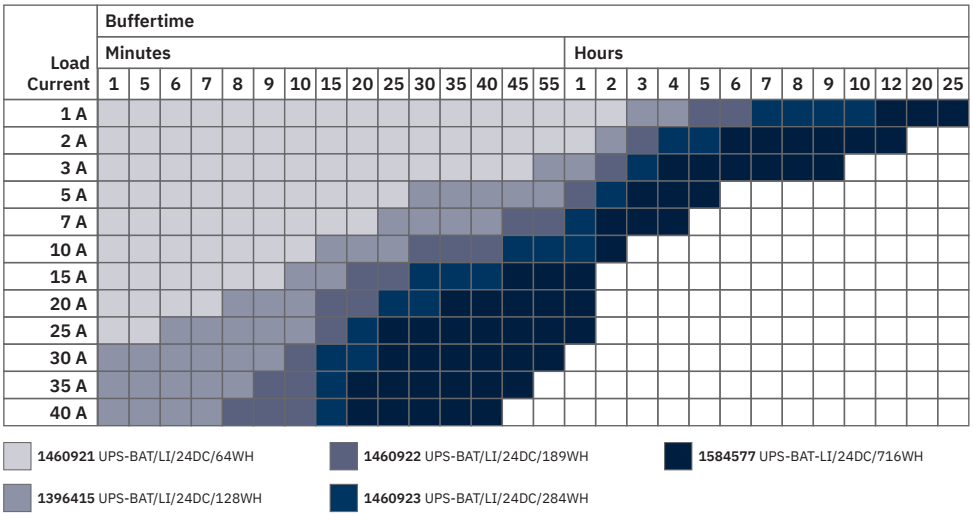
**1348516** UPS-BAT/PB/24DC/20AH

**1274118** UPS-BAT/PB/24DC/7AH

**1354641** UPS-BAT/PB/24DC/40AH

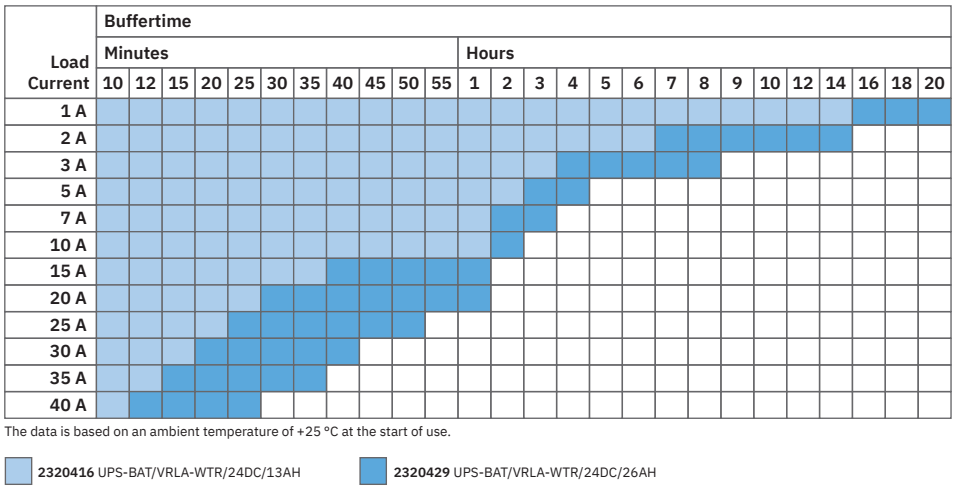
QUINT DC UPS buffer times for PB battery module

## Graphic




QUINT DC UPS buffer times for LI battery module

## Graphic




QUINT DC UPS buffer times and VRLA-WTR battery module

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2906993

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

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

**DNV**
Approval ID: TAA00001YD

**KC**
Approval ID: R-R-PCK-2906993

**LR**
Approval ID: LR21417906TA-01

**NK**
Approval ID: TA26283M

**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

**IECEE CB Scheme**
Approval ID: DK-68191-M1-UL

**ABS**
Approval ID: 23-2416092-PDA

**BV**
Approval ID: 69394/A1 BV

**NK**
Approval ID: TA26283M

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Approval ID: E123528-20171009

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

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

**KC**
Approval ID: R-R-PCK-2906993

**DNV**
Approval ID: TAA00001YD

**cULus Listed**
Approval ID: E199827-20180226

**cULus Listed**
Approval ID: E199827-20180226

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000382 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121000 |

## 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 | c4374425-7599-4c71-8bf6-d9c015600cc8 |


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