

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Uninterruptible power supply with IQ technology for DIN rail mounting, input: 24 V DC, output: 24 V DC/20 A, including mounted universal DIN rail adapter UTA 107/30

Product description

The UPS module for 24 V DC with output currents ranging from 5 to 40 A allows you to create a custom solution combining a power supply, UPS module, and energy storage.

Your advantages

- Easy handling thanks to automatic battery detection, tool-free battery replacement during operation, and communication via the IFS interface
- Optimum use of the buffer time and preventive monitoring of the energy storage
- Rapid battery charging
- Comprehensive signaling and parameterization
- Fast tripping of standard circuit breakers with SFB (selective fuse breaking) technology
- Reliable starting of difficult loads with the static POWER BOOST power reserve with up to 1.5 times the nominal current permanently

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2320238 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CMUQ43 |
| Product key | CMUQ43 |
| GTIN | 4046356554190 |
| Weight per piece (including packing) | 800 g |
| Weight per piece (excluding packing) | 601 g |
| Customs tariff number | 85371091 |
| Country of origin | IN |

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

Technical data

Input data

DC operation

| | |
|--------------------------------|------------------------------------|
| Input voltage | 24 V DC |
| Nominal input voltage range | 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 | 1 h (With battery module 38 AH) |
| Current consumption | 32.9 A (maximum, mains operation) |
| | 10.5 mA (No load, mains operation) |
| | 6.9 A (Charging, mains operation) |
| Fixed backup threshold | ≤ 22 V DC |
| Variable connect threshold | 1 V/0.1 s |

Output data

| | |
|----------------------------------|---|
| Efficiency | > 98 % (Mains operation, with charged energy storage) |
| | 98 % (Battery operation) |
| Nominal output voltage | 24 V DC |
| Output voltage range | 18 V DC ... 30 V DC |
| Nominal output current (I_N) | 20 A (-25 °C ... 50 °C) |
| Output current limit | In mains mode according to connected upstream current limiting device |
| | > 27 A (Battery operation) |
| Derating | 60 °C ... 70 °C (2.5 %/K) |
| | 60 °C ... 70 °C (2.5 %/K) |
| Output power | 480 W |
| Power dissipation | 2.7 W (Mains operation) |
| | 7.65 W (Mains operation) |
| | 3.19 W (Battery operation) |
| | 9.35 W (Battery operation) |
| Connection in parallel | yes, up to 2 modules with redundancy module |
| | 2 (Devices) |
| Connection in series | no |
| | no |

Mains operation

| | |
|---------------------------------------|--------------------------|
| Nominal output voltage | 24 V DC |
| Output voltage range | 18 V DC ... 30 V DC |
| Nominal output current (I_N) | 20 A (-25 °C ... 60 °C) |
| POWER BOOST (I_{Boost}) | 26 A (-25 °C ... 40 °C) |
| Selective Fuse Breaking (I_{SFB}) | 120 A (-25 °C ... 60 °C) |

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

| | |
|----------|------------------------|
| 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) | 20 A (-25 °C ... 60 °C) |
| POWER BOOST (I_{Boost}) | 27 A (-25 °C ... 40 °C) |
| Selective Fuse Breaking (I_{SFB}) | 120 A (-25 °C ... 60 °C) |
| Duration | 15 ms (SFB technology) |

Signal: Alarm

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

Signal: Battery charge

| | |
|---------------------------|---------------------------|
| Output description | Relay (floating) |
| Maximum switching voltage | $\leq 30 \text{ V AC/DC}$ |
| Output voltage | 24 V |
| Continuous load current | $\leq 100 \text{ mA}$ |

Signal: Battery mode

| | |
|---------------------------|---------------------------|
| Output description | Relay (floating) |
| Maximum switching voltage | $\leq 30 \text{ V AC/DC}$ |
| Output voltage | 24 V |
| Continuous load current | $\leq 100 \text{ mA}$ |

Energy storage

| | |
|-----------------------------------|---|
| Nominal voltage U_N | 24 V DC |
| End-of-charge voltage | 24 V DC ... 29 V DC (temperature compensated) |
| Charging current | 0.2 A ... 5 A |
| Nominal capacity range | 3 Ah ... 200 Ah |
| Battery presence check (cyclic) | 60 s |
| IQ technology | Yes |
| Temperature compensation | 42 mV/K (preset) |
| Temperature compensation (preset) | 42 mV/K |
| Network management | Yes |

Connection data

Input

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross-section, rigid min. | 0.2 mm ² |
| Conductor cross-section, rigid max. | 6 mm ² |
| Conductor cross-section flexible min. | 0.2 mm ² |
| Conductor cross-section flexible max. | 4 mm ² |

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

| | |
|----------------------------------|--------|
| Conductor cross-section AWG min. | 12 |
| Conductor cross-section AWG max. | 10 |
| Stripping length | 8 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 ² |
| Conductor cross-section, rigid max. | 6 mm ² |
| Conductor cross-section flexible min. | 0.2 mm ² |
| Conductor cross-section flexible max. | 4 mm ² |
| Conductor cross-section AWG min. | 12 |
| Conductor cross-section AWG max. | 10 |
| Stripping length | 8 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 ² |
| Conductor cross-section, rigid max. | 4 mm ² |
| Conductor cross-section flexible min. | 0.2 mm ² |
| Conductor cross-section flexible max. | 2.5 mm ² |
| 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 |

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

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

| | |
|---------------------------|-----------|
| 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 | green/red |
| 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 |

Electrical properties

| | |
|--|----------|
| Insulation voltage input/output | 500 V DC |
| Insulation voltage input, output / housing | 750 V DC |

Product properties

| | |
|----------------------------|--------------------|
| Product type | DC UPS |
| Product family | QUINT DC UPS |
| IQ technology | Yes |
| MTBF (IEC 61709, SN 29500) | > 500000 h (40 °C) |

Insulation characteristics

| | |
|------------------|-----|
| Protection class | III |
|------------------|-----|

Life expectancy (electrolytic capacitors)

| | |
|------|----------|
| Time | 195013 h |
|------|----------|

Dimensions

| | |
|--------|--------|
| Width | 40 mm |
| Height | 130 mm |
| Depth | 125 mm |

Installation dimensions

| | |
|----------------------------------|---------------|
| Installation distance right/left | 5 mm / 5 mm |
| Installation distance top/bottom | 50 mm / 50 mm |

Alternative assembly

| | |
|-------|--------|
| Width | 123 mm |
|-------|--------|

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

| | |
|--------|--------|
| Height | 130 mm |
| Depth | 43 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 | Aluminum (AlMg3) |
| Hood version | Galvanized sheet steel, free from chrome (VI) |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °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) 15 Hz ... 150 Hz, 2.3g t _v = 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) |

Approvals

| | |
|--------------|--|
| UL approvals | UL Listed UL 508 |
| | UL/C-UL Recognized UL 60950-1 |
| | UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |

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 |

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

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

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

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

| | |
|---------|---------------------|
| 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. |

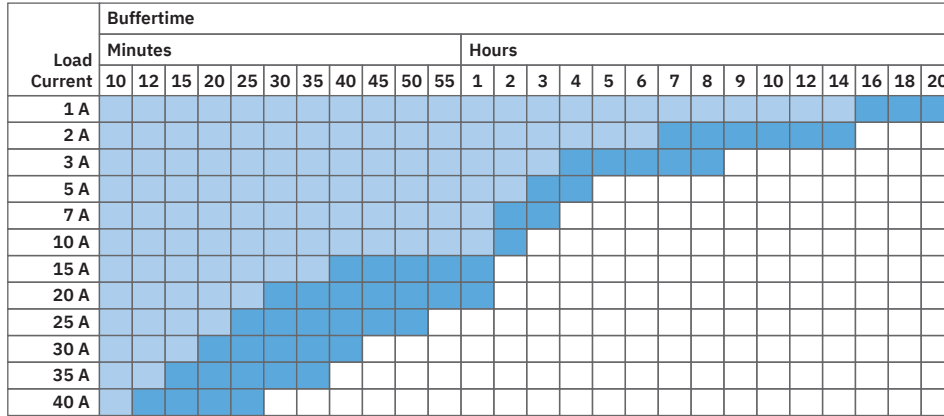
QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

Graphic



The data is based on an ambient temperature of +25 °C at the start of use.

■ 2320416 UPS-BAT/VRLA-WTR/24DC/13AH ■ 2320429 UPS-BAT/VRLA-WTR/24DC/26AH

QUINT DC UPS buffer times and VRLA-WTR battery module

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2320238>



cUL Recognized
Approval ID: E211944



UL Recognized
Approval ID: E211944



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



LR
Approval ID: LR22136091TA



BV
Approval ID: 41516/B0 BV



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



UL Listed
Approval ID: E123528



cUL Listed
Approval ID: FILE E 123528

ABS

Approval ID: 22-2244289-PDA

DNV

Approval ID: TAA0000265


| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | | | | |
| | 500 V | 41 A | - | - 6 |

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

 **KC**
Approval ID: R-R-PCK-2320238

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

 **cUL Listed**
Approval ID: E199827

 **UL Listed**
Approval ID: E199827

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

QUINT-UPS/ 24DC/ 24DC/20 - Uninterruptible power supply



2320238

<https://www.phoenixcontact.com/gb/products/2320238>

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 | 3d2e4de9-bb88-463d-a2ac-33bbcaf2a571 |

EF3.1 Climate Change

| | |
|---------|----------------|
| CO2e kg | 22.718 kg CO2e |
|---------|----------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk