

QUINT4-UPS/1AC/1AC/500VA/USB - Uninterruptible power supply



1067327

<https://www.phoenixcontact.com/us/products/1067327>

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QUINT AC UPS, IQ Technology, DIN rail mounting, input: 120 V AC / 230 V AC, output: 120 V AC / 230 V AC / 500 VA. output: 230 V AC / 500 VA.

Product description

The uninterruptible power supplies for industrial AC applications ensure maximum failsafe performance and system availability in the event of voltage failures or fluctuations. The AC UPS delivers a pure sine curve at the output and supplies AC loads with up to 500 VA without interruption. Choose the ideal AC UPS with appropriate battery module for your application.

Your advantages

- Smooth transition, thanks to the pure sine curve: the sine generated in battery operation is synchronous with the mains previously used for supply
- Universal use thanks to modular combination of UPS module and battery module (VRLA and WTR)
- USB interface for connection to higher-level controllers such as industrial PCs
- Startup from the energy storage system possible, even without mains input

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1067327 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CM23 |
| Product key | CMUI15 |
| GTIN | 4055626736082 |
| Weight per piece (including packing) | 3,064 g |
| Weight per piece (excluding packing) | 2,724 g |
| Customs tariff number | 85371091 |
| Country of origin | DE |

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Technical data

Input data

| | |
|--------------------------------|-----------------------|
| Input voltage | 120 V AC |
| | 230 V AC |
| Input voltage range | 90 V AC ... 264 V AC |
| Nominal input voltage range | 100 V AC ... 240 V AC |
| Typical national grid voltage | 120 V AC |
| Voltage type of supply voltage | AC |
| Frequency range (f_N) | 45 Hz ... 65 Hz |
| Permissible backup fuse | max. 25 A |
| Current consumption | 6.9 A (100 V AC) |
| | 2.86 A (240 V AC) |
| | 19 A (24 V DC) |

Output data

| | |
|---------------------------------------|--------------------------------------------------|
| Efficiency | > 97 % (100 % load, with charged energy storage) |
| | ~ 87 % (100 % load) |
| Apparent power | 500 VA |
| Real power | 400 W |
| Power factor (cos phi) | 0.8 |
| Crest factor | 2.8 |
| Switch-over time | < 10 ms |
| UPS classification | VFD-SS-311 |
| Connection in parallel | no |
| Connection in series | no |
| Overload capability Mains operation | in accordance with internal fuse |
| Overload capability Battery operation | 105 % (permanent) |
| | 120 % ... 150 % (20 s / 5 s, then shutdown) |

Mains operation

| | |
|-----------------------------------|----------------------|
| Output voltage | 120 V AC |
| | 230 V AC |
| Nominal output current (I_N) | 4.17 A (120 V AC) |
| | 2.17 A (230 V AC) |
| Maximum no-load power dissipation | typ. 9 W (120 V AC) |
| | typ. 10 W (230 V AC) |
| Power loss nominal load max. | typ. 10 W (120 V AC) |
| | typ. 11 W (230 V AC) |
| Nominal output frequency | 60 Hz \pm 5 Hz |
| | 50 Hz \pm 5 Hz |
| Output fuse | 10 A 400 V gRL |

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Battery operation

| | |
|----------------------------------------|-----------------------------------|
| Output voltage | 120 V AC ± 2 % |
| | 230 V AC ± 2 % |
| Form of output voltage | Pure sine |
| Maximum no-load power dissipation | approx. 23 W (120 V AC) |
| | approx. 24 W (230 V AC) |
| Power loss nominal load max. | approx. 57 W (120 V AC) |
| | approx. 54 W (230 V AC) |
| Nominal output frequency | 60 Hz |
| | 50 Hz |
| | ± 5 % (grid-guided) |
| | ± 0.5 % (self-guided) |
| Total harmonic distortion factor (THD) | < 3 % (linear load) |
| | < 8 % (non-linear load) |
| Electronic current limitation | > 2,5 x I _N (> 200 ms) |

Energy storage

Input

| | |
|---------------------------|-----------------------------------------------|
| Input voltage | 24 V DC |
| Deep discharge protection | 20 V DC ... 24 V DC (can be parameterized) |
| Nominal capacity range | 3.4 Ah ... 200 Ah (5x 40 Ah) |
| Charging current | max. 5 A |
| End-of-charge voltage | 24 V DC ... 31 V DC (temperature compensated) |

General

| | |
|-----------------------------|-----------------------------------------------------|
| Battery technology | VRLA, VRLA-WTR, LI-ION (see section: Ordering data) |
| Charge characteristic curve | IU ₀ U |
| Permissible backup fuse | 50 A |

Connection data

Input

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

Conductor connection

| | |
|----------------------------------------------|-------------------------------------------|
| Connection method | Screw connection |
| flexible | 0.2 mm ² ... 4 mm ² |
| flexible with ferrule without plastic sleeve | 0.2 mm ² ... 4 mm ² |
| flexible with ferrule with plastic sleeve | 0.2 mm ² ... 4 mm ² |
| AWG | 30 ... 10 |
| Stripping length | 8 mm |
| Tightening torque | 0.5 Nm ... 0.6 Nm |
| Drive form screw head | Slotted L |

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Output

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

Conductor connection

| | |
|----------------------------------------------|-------------------------------------------|
| Connection method | Screw connection |
| rigid | 0.2 mm ² ... 6 mm ² |
| flexible | 0.2 mm ² ... 4 mm ² |
| flexible with ferrule without plastic sleeve | 0.2 mm ² ... 4 mm ² |
| flexible with ferrule with plastic sleeve | 0.2 mm ² ... 4 mm ² |
| AWG | 30 ... 10 |
| Stripping length | 8 mm |
| Tightening torque | 0.5 Nm ... 0.6 Nm |
| Drive form screw head | Slotted L |

Signal

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

Conductor connection

| | |
|----------------------------------------------|---------------------------------------------|
| Connection method | Screw connection |
| rigid | 0.2 mm ² ... 1.5 mm ² |
| flexible | 0.2 mm ² ... 1.5 mm ² |
| flexible with ferrule without plastic sleeve | 0.2 mm ² ... 1.5 mm ² |
| flexible with ferrule with plastic sleeve | 0.2 mm ² ... 1.5 mm ² |
| AWG | 30 ... 12 |
| Stripping length | 8 mm |
| Tightening torque | 0.5 Nm ... 0.6 Nm |
| Drive form screw head | Slotted L |

Battery

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

Conductor connection

| | |
|----------------------------------------------|-------------------------------------------|
| Connection method | Screw connection |
| rigid | 0.2 mm ² ... 6 mm ² |
| flexible | 0.2 mm ² ... 4 mm ² |
| flexible with ferrule without plastic sleeve | 0.2 mm ² ... 4 mm ² |
| flexible with ferrule with plastic sleeve | 0.2 mm ² ... 4 mm ² |
| AWG | 30 ... 10 |
| Stripping length | 8 mm |
| Tightening torque | 0.5 Nm ... 0.6 Nm |
| Drive form screw head | Slotted L |

Interfaces

| | |
|-----------|------------------|
| Interface | USB (Modbus/RTU) |
|-----------|------------------|

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| | |
|----------------------|-----------------|
| Number of interfaces | 1 |
| Connection method | MINI-USB Type B |
| Connection marking | 5.1 |
| Locking | Screw |
| Transmission physics | USB 2.0 |
| Maximum cable length | 3 m |
| Electrical isolation | yes |

Signaling

Signal input Bat.-Start

| | |
|---------------------------|-------------------------------------------------------------|
| Signalization designation | Bat.-Start |
| Position | 3.x |
| Position marking | 3.6 (Bat.-Start 230 V), 3.7 (Bat.-Start 120 V) |
| Low signal | Connection to SGnd with $< 2.7 \text{ k}\Omega$ |
| High signal | Open ($> 200 \text{ k}\Omega$ between Bat.-Start and SGnd) |

Signal input Remote

| | |
|---------------------------|--------------------------------------------------------|
| Signalization designation | Remote |
| Position | 3.x |
| Position marking | 3.8 (Remote) |
| Low signal | Connection to SGnd with $< 2.7 \text{ k}\Omega$ |
| High signal | Open ($> 35 \text{ k}\Omega$ between Remote and SGnd) |

Signal output Alarm

| | |
|---------------------------|---------------------------|
| Position | 3.x |
| Signalization designation | Alarm |
| Position marking | 3.1 (Alarm) |
| Switching output | Transistor output, active |
| Output voltage | 24 V |
| Continuous load current | $\leq 20 \text{ mA}$ |
| LED status indicator | red |

Signal output Battery Mode

| | |
|---------------------------|---------------------------|
| Position | 3.x |
| Signalization designation | Bat.-Mode |
| Position marking | 3.2 (Bat.-Mode) |
| Switching output | Transistor output, active |
| Output voltage | 24 V |
| Continuous load current | $\leq 20 \text{ mA}$ |
| LED status indicator | yellow |

Signal output AC OK

| | |
|---------------------------|-------|
| Position | 3.x |
| Signalization designation | AC OK |

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| | |
|-------------------------|---------------------------|
| Position marking | 3.3 (AC OK) |
| Switching output | Transistor output, active |
| Output voltage | 24 V |
| Continuous load current | ≤ 20 mA |
| LED status indicator | green |

Signal output Ready

| | |
|---------------------------|---------------------------|
| Position | 3.x |
| Signalization designation | Ready |
| Position marking | 3.4 (Ready) |
| Switching output | Transistor output, active |
| Output voltage | 24 V |
| Continuous load current | ≤ 20 A |
| LED status indicator | green |

Signal output P > P_N

| | |
|---------------------------|---------------------------|
| Position | 3.x |
| Signalization designation | P>P _n |
| Position marking | 3.5 (P>P _n) |
| Switching output | Transistor output, active |
| Output voltage | 24 V |
| Continuous load current | ≤ 20 mA |

Signal ground SGnd

| | |
|---------------------|--------------------------------------|
| Connection labeling | 3.9 |
| Function | Signal ground |
| Reference potential | For signal inputs and signal outputs |

Electrical properties

| | |
|------------------|---|
| Number of phases | 1 |
|------------------|---|

Product properties

| | |
|----------------------------|------------------|
| Product type | AC UPS |
| Product family | QUINT AC UPS |
| MTBF (IEC 61709, SN 29500) | 445469 h (40 °C) |

Insulation characteristics

| | |
|----------------------|----------------|
| Protection class | I |
| Overvoltage category | II |
| Pollution degree | 3 (≤ 130 V AC) |
| | 2 (> 200 V AC) |

Dimensions

Item dimensions

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| | |
|--------|--------|
| Width | 180 mm |
| Height | 130 mm |
| Depth | 125 mm |

Installation dimensions

| | |
|----------------------------------|---------------|
| Installation distance right/left | 0 mm / 0 mm |
| Installation distance top/bottom | 50 mm / 50 mm |

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Material specifications

| | |
|------------------|-------|
| Housing material | Metal |
|------------------|-------|

Environmental and real-life conditions

Ambient conditions

| | |
|------------------------------------------------|---------------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 60 °C (> 50 °C: 2,5 % / K) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Maximum altitude | ≤ 3000 m (> 2000 m: 0,6 % / 100 m) |
| Max. permissible relative humidity (operation) | ≤ 95 % |
| Shock | 20g in all directions (EN 60068-2-27) |
| Vibration (operation) | 5 Hz ... 100 Hz, 0,7g (EN 60068-2-6) |

Standards and regulations

Uninterruptible power supply systems

| | |
|--------------------------|--------------------------------------|
| Standard designation | Uninterruptible power supply systems |
| Standards/specifications | EN 62040-1 |

Approvals

UL

| | |
|----------------|----------------------------|
| Identification | UL/C-UL Recognized UL 1778 |
|----------------|----------------------------|

EMC data

| | |
|-------------------------------|---------------------------------------------------|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| Interference emission | Noise emission in accordance with EN 62040-2 |
| Noise immunity | Immunity in accordance with EN 62040-2 |

Electrostatic discharge

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

Electrostatic discharge

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| | |
|-------------------|-------------|
| Contact discharge | ± 6 kV |
| Discharge in air | ± 8 kV |
| Comments | Criterion A |

Electromagnetic HF field

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

Electromagnetic HF field

| | |
|---------------------|------------------|
| Frequency range | 80 MHz ... 6 GHz |
| Test field strength | 10 V/m |
| Comments | Criterion A |

Fast transients (burst)

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

Fast transients (burst)

| | |
|----------|-------------------------|
| Input | ± 2 kV |
| | ± 2 kV |
| Output | ± 2 kV |
| Signal | ± 2 kV |
| | ± 2 kV (USB) |
| Comments | Criterion A (B for USB) |

Surge voltage load (surge)

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

Surge voltage load (surge)

| | |
|--------------|-----------------------|
| Signal | 1 kV (asymmetrical) |
| Comments | Criterion A |
| Input/Output | ± 1 kV (symmetrical) |
| | ± 2 kV (asymmetrical) |

Conducted interference

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-6 |
|-----------------------|--------------|

Conducted interference

| | |
|-----------------|---------------------|
| Frequency range | 0.15 MHz ... 80 MHz |
| Signal | 1 kV (asymmetrical) |
| Comments | Criterion A |

Power frequency magnetic field

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-8 |
| Frequency | 50 Hz |
| Signal | 30 A/m |
| Comments | Criterion A |

Criteria

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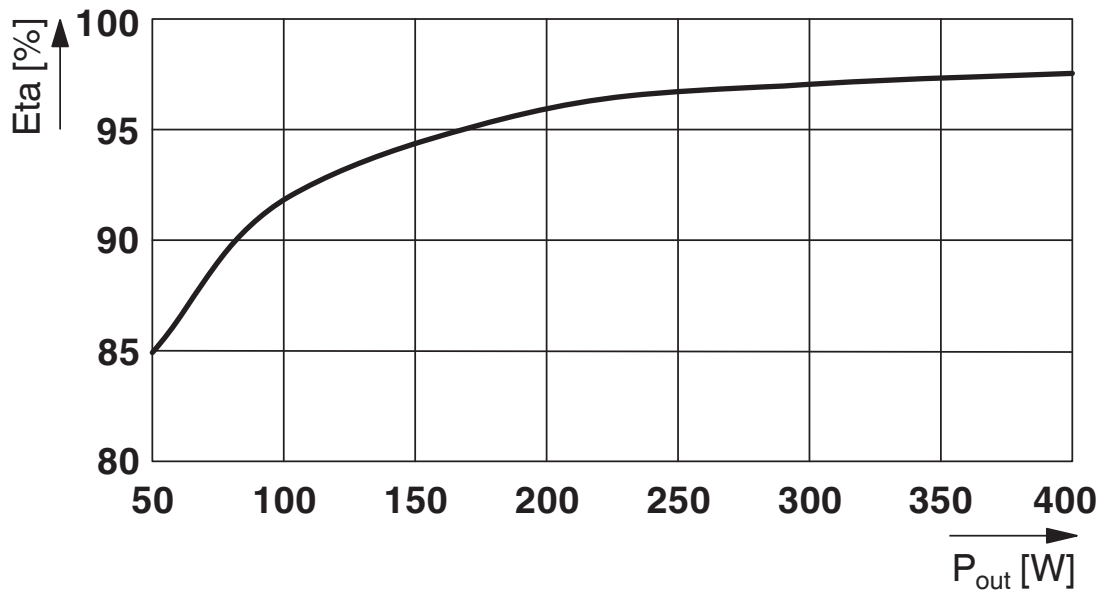


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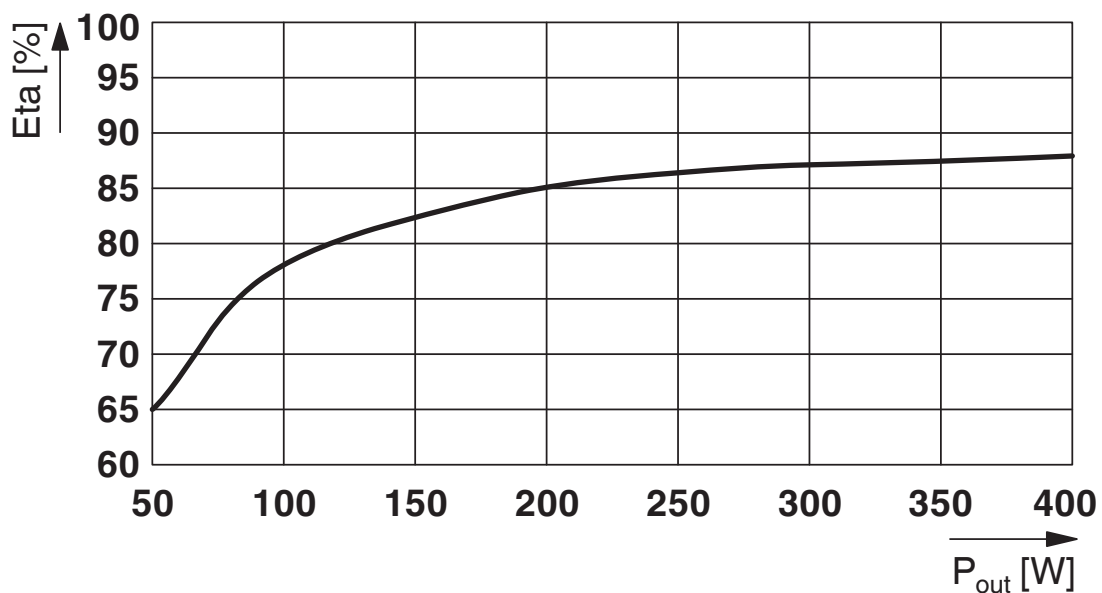
Drawings

Diagram



Efficiency (normal operation)

Diagram



Efficiency (battery operation)

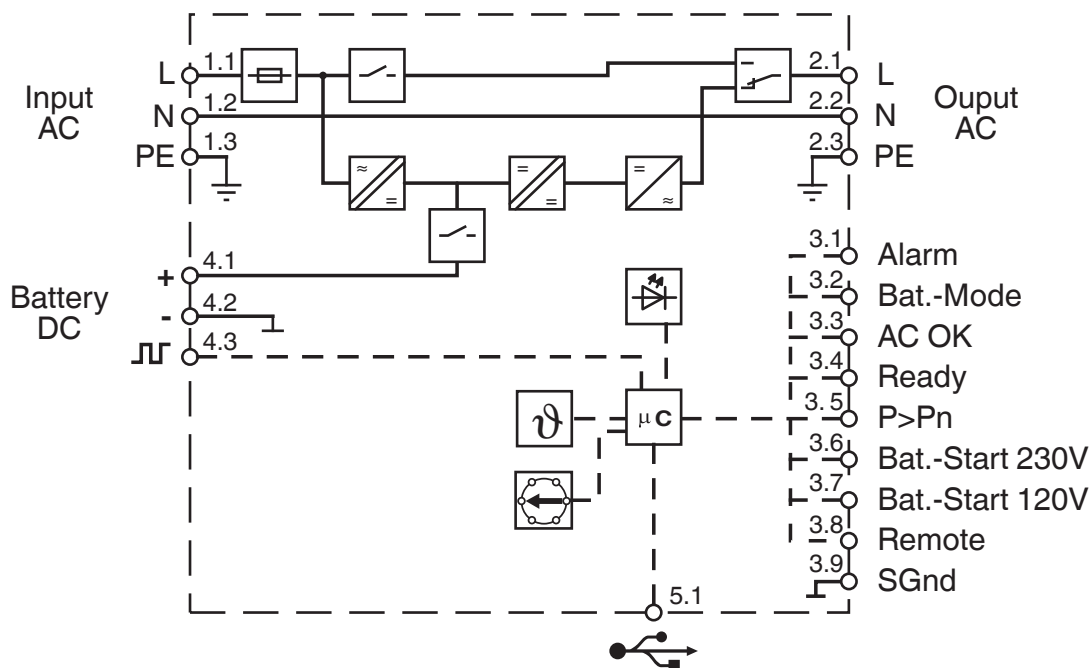
QUINT4-UPS/1AC/1AC/500VA/USB - Uninterruptible power supply



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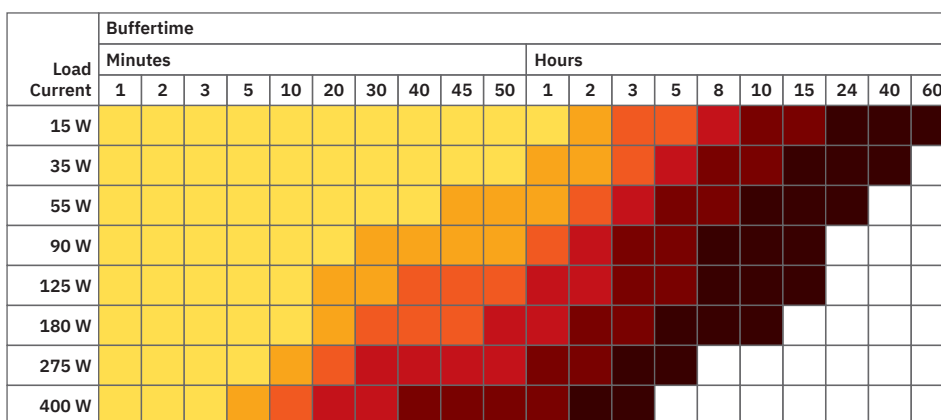
<https://www.phoenixcontact.com/us/products/1067327>

Block diagram



Block diagram

Graphic



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

- 1274117 UPS-BAT/PB/24DC/4AH
- 1274118 UPS-BAT/PB/24DC/7AH
- 1274119 UPS-BAT/PB/24DC/12AH
- 1348516 UPS-BAT/PB/24DC/20AH
- 1354641 UPS-BAT/PB/24DC/40AH
- 1474660 UPS-BAT/PB/24DC/110AH

Buffer times for QUINT AC UPS 500 VA for Pb battery module

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Graphic

| Load Current | Buffertime | | | | | | | | | | | | | | | | |
|--------------|------------|---|---|---|----|----|----|----|----|----|-------|----|----|----|----|----|----|
| | Minutes | | | | | | | | | | Hours | | | | | | |
| | 1 | 2 | 3 | 5 | 10 | 20 | 30 | 40 | 45 | 50 | 1 | 2 | 3 | 5 | 8 | 10 | 15 |
| 15 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 35 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 2x | ■ |
| 55 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 2x | ■ | ■ |
| 90 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 2x | ■ | ■ | ■ |
| 125 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 2x | 2x | ■ | ■ | ■ |
| 180 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 2x | ■ | ■ | ■ | ■ |
| 275 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 2x | ■ | ■ | ■ | ■ | ■ |
| 400 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 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.

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

Buffer times for QUINT AC UPS 500 VA for VRLA-WTR battery module

Graphic

| Load Current | Buffertime | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------------|---|---|---|----|----|----|----|----|----|-------|----|---|-----|---|---|-----|---|---|---|---|----|----|
| | Minutes | | | | | | | | | | Hours | | | | | | | | | | | | |
| | 1 | 5 | 7 | 9 | 10 | 15 | 20 | 25 | 30 | 40 | 45 | 50 | 1 | 1.5 | 2 | 3 | 3.5 | 4 | 5 | 8 | 9 | 10 | 14 |
| 15 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 35 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 55 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 90 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 125 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 180 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 275 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 400 W | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

■ 1460921 UPS-BAT/LI/24DC/64WH ■ 1460922 UPS-BAT/LI/24DC/189WH ■ 1584577 UPS-BAT/LI/24DC/716WH
 ■ 1396415 UPS-BAT/LI/24DC/128WH ■ 1460923 UPS-BAT/LI/24DC/284WH

QUINT AC UPS 500 VA buffer times for Li battery module

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1067327>



IECEE CB Scheme
Approval ID: DK-95944-UL



cULus Recognized
Approval ID: FILE E 342453



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



KC
Approval ID: R-R-PCK-1067327

DNV

Approval ID: TAA00000BM



cULus Recognized
Approval ID: FILE E 342453



IECEE CB Scheme
Approval ID: DK-95944-UL



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



KC
Approval ID: R-R-PCK-1067327

DNV

Approval ID: TAA00000BM



UL Recognized
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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 | 6(c) |

China RoHS

| | |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50 |
| | 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) |
| | Lead(CAS: 7439-92-1) |
| SCIP | f227974b-e780-4747-843e-676d1b6d6151 |

EF3.1 Climate Change

| | |
|---------|-----------------|
| CO2e kg | 116.593 kg CO2e |
|---------|-----------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com