

UPS-BAT/LI/24DC/128WH - Battery module



1396415

<https://www.phoenixcontact.com/au/products/1396415>

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Battery module (device with battery), Lithium-Ion (LiFePO₄), 24 V DC, 128 Wh. For use with a QUINT UPS for ambient temperatures (charging) of 0°C ... 60°C and a maximum charging current of 5 A. For charging below 0°C, please note the permissible UPS V/C level.

Product description

For continuous monitoring and intelligent management, there is constant communication with the QUINT UPS. Thanks to automatic detection of the battery module and tool-free change during operation, quick installation is possible. The battery modules for QUINT UPS with IQ Technology leave the warehouse fully charged.

For ambient temperatures (charging) of -10°C ... 60°C only for QUINT4-UPS/24DC/... from V/C 05,

1067327 QUINT4-UPS/1AC/1AC/500VA/USB from V/C 02,

2320212 QUINT-UPS/24DC/24DC/5 from V/C 12,

2320225 QUINT-UPS/24DC/24DC/10 from V/C 12,

2320238 QUINT-UPS/24DC/24DC/20 from V/C 12,

2320241 QUINT-UPS/24DC/24DC/40 from V/C 13,

2320461 QUINT-UPS/24DC/12DC/5/24DC/10 from V/C 05,

2320270 QUINT-UPS/1AC/1AC/500VA from V/C 06.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1396415 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CMUEL3 |
| Product key | CMUEL3 |
| GTIN | 4063151780043 |
| Weight per piece (including packing) | 3,375 g |
| Weight per piece (excluding packing) | 2,790 g |
| Customs tariff number | 85076000 |
| Country of origin | CN |

Technical data

Notes

General

| | |
|---------------------|---|
| Note on the battery | This product contains a battery with a limited shelf life that must be charged every few months. The product packaging indicates when the battery must be started up or recharged. The general shelf life can be found in the energy storage devices area under "Latest startup". |
|---------------------|---|

Energy storage

Input

| | |
|-----------------------|-------------------|
| Input voltage | 24 V DC |
| Nominal capacity | 128 Wh (2x 64 Wh) |
| | 5 Ah |
| Charging current | 10 A |
| End-of-charge voltage | 28.4 V DC (20 °C) |

Output

| | |
|----------------|-------------------------|
| Output current | 45 A |
| Output fuse | 2x 25 A ATOF Blade Fuse |
| Buffer time | 14 min (20 A) |

General

| | |
|--|-------------------------------------|
| Connection in parallel | yes |
| | max. 5 |
| Battery type | Grepow, 2x 25.6 V GRP6053117-8S1P-A |
| Battery technology | Lithium-Ion (LiFePO ₄) |
| IQ-Technology | yes |
| Latest startup date (battery only) | 6 Months (-20 °C ... 35 °C) |
| | 1 Months (-30 °C ... 65 °C) |
| Accumulator module service life (according to Eurobat) | 10 (20 °C) |
| Size designation | Block |
| Temperature sensor | yes |

Connection data

Battery

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

Connection technology

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

Conductor connection

| | |
|-------------------|---|
| Connection method | Screw connection |
| rigid | 0.75 mm ² ... 16 mm ² |

UPS-BAT/LI/24DC/128WH - Battery module



1396415

<https://www.phoenixcontact.com/au/products/1396415>

| | |
|--|---|
| | 10 mm ² ... 16 mm ² |
| flexible | 0.75 mm ² ... 16 mm ² |
| | 10 mm ² ... 16 mm ² |
| flexible with ferrule without plastic sleeve | 10 mm ² ... 16 mm ² (recommended) |
| | 0.75 mm ² ... 16 mm ² |
| flexible with ferrule with plastic sleeve | 10 mm ² ... 16 mm ² (recommended) |
| | 0.75 mm ² ... 16 mm ² |
| AWG | 20 ... 6 |
| | 8 ... 6 (recommended) |
| Stripping length | 10 mm (recommended) |
| | 10 mm |
| Tightening torque | 1.2 Nm ... 1.5 Nm |
| | 15 lb _F ·in. |
| Drive form screw head | Slotted L |

LIN

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

Connection technology

| | |
|------------------|------------|
| Position marking | 4.3 (┘┘┘┘) |
|------------------|------------|

Conductor connection

| | |
|--|---|
| Connection method | Screw connection |
| rigid | 0.75 mm ² ... 16 mm ² (LIN) |
| flexible | 0.75 mm ² ... 16 mm ² (LIN) |
| flexible with ferrule without plastic sleeve | 0.75 mm ² ... 16 mm ² (LIN) |
| flexible with ferrule with plastic sleeve | 0.75 mm ² ... 16 mm ² (LIN) |
| AWG | 20 ... 6 |
| Stripping length | 10 mm (LIN) |

Product properties

| | |
|----------------|---|
| Product type | Battery module |
| Product family | Battery module (device with battery) |
| Application | for QUINT4-UPS |
| Disposal | Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations. |

Insulation characteristics

| | |
|---------------------|-----|
| Protection class | III |
| Degree of pollution | 2 |

Dimensions

Item dimensions

| | |
|--------|--------|
| Width | 135 mm |
| Height | 202 mm |

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1396415

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| | |
|----------------------------------|-------------|
| Depth | 110 mm |
| Drill hole | |
| Diameter | 5 mm |
| Installation dimensions | |
| Installation distance right/left | 0 mm / 0 mm |
| Installation distance top/bottom | 5 mm / 5 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (storage/transport) | -30 °C ... 65 °C |
| | -20 °C ... 35 °C (recommended) |
| Ambient temperature (charge) | -10 °C ... 55 °C (0 °C ... 55 °C, UPS V/C Level) |
| Ambient temperature (discharge) | -20 °C ... 60 °C |
| Max. permissible relative humidity (operation) | ≤ 95 % |
| Shock | 30g, 18 ms per spatial direction (in accordance with IEC 60068-2-27) |
| Vibration (operation) | 5 Hz ... 100 Hz, 0.7g (in accordance with DNV / IEC 60068-2-6) |

Approvals

UL

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

UL

| | |
|----------------|---|
| Identification | UL/C-UL Listed ANSI/UL 121201 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |
|----------------|---|

Ex data

| | |
|----------------------------|----|
| Suited for EX-applications | no |
|----------------------------|----|

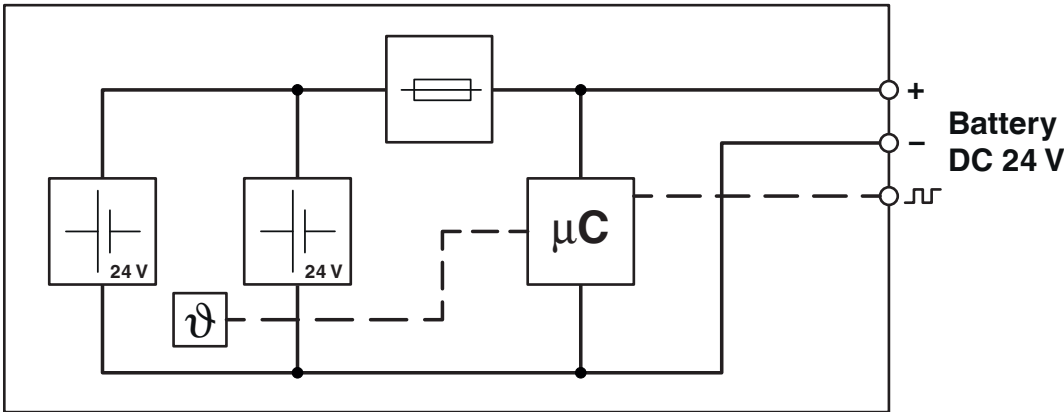
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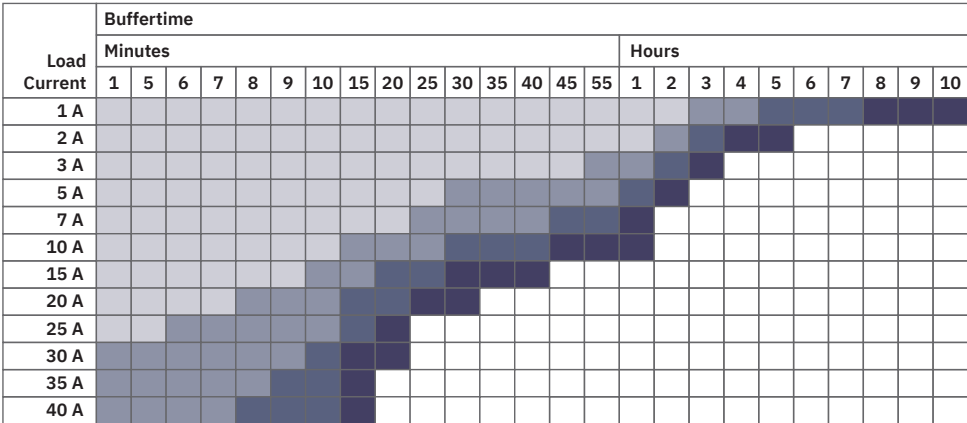
Drawings

Block diagram



Block diagram

Graphic



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

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

Lithium battery buffer times for QUINT DC UPS

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Graphic

| Load Current | Buffertime | | | | | | | | | | | | | | |
|-----------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----|
| | Minutes | | | | | | | | | | | | | Hours | |
| | 1 | 2 | 3 | 4 | 5 | 8 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 1 | 1.5 |
| 100 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x |
| 200 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | |
| 300 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | | |
| 400 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | | | |
| 500 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | | | | |
| 600 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | | | | | |
| 700 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | | | | | |
| 800 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | | | | | | |
| 900 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | | | | | | |

2x: There are always 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.

Lithium battery buffer times for QUINT AC UPS 1 kVA

Graphic

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

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

Lithium battery buffer times for QUINT AC UPS 500 VA

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1396415

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1396415>

**cULus Listed**
Approval ID: FILE E 123528

**IECEE CB Scheme**
Approval ID: DK-134807-A1-UL

| | | | | |
|--------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| DNV Approval ID: TAA0000265 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 500 V | 41 A | - | - 6 |

**cULus Listed**
Approval ID: FILE E 199827

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27050403 |
|-------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC003893 |
|----------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 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) |
|-------------------------------------|----------------------|

EF3.0 Climate Change

| | |
|---------|--------------|
| CO2e kg | 78.6 kg CO2e |
|---------|--------------|

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