

# UPS-BAT/LI/24DC/284WH - Battery module



1460923

<https://www.phoenixcontact.com/pc/products/1460923>

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Battery module (device with battery), Lithium-Ion (LiFePO<sub>4</sub>), 24 V DC, 284 Wh

## 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 switching during operation, quick installation is possible. The battery modules for QUINT UPS with IQ Technology are optimally charged before being sent to our warehouse.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1460923       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | CMUEL3        |
| GTIN                                 | 4063151852061 |
| Weight per piece (including packing) | 5,078 g       |
| Weight per piece (excluding packing) | 4,608 g       |
| Customs tariff number                | 85076000      |
| Country of origin                    | CN            |

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## Technical data

### Energy storage

#### Input

|                       |                      |
|-----------------------|----------------------|
| Input voltage         | 24 V DC              |
| Nominal capacity      | 284 Wh (3x 94.72 Wh) |
|                       | 11.1 Ah              |
| Charging current      | 15 A                 |
| End-of-charge voltage | 28.4 V DC (20 °C)    |

#### Output

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Output current | max. 45 A (Derating: -20 °C ... 0 °C, 40 A; 50 °C ... 60 °C, 35 A) |
| Output fuse    | 1x 50 A MAXI Blade Fuse ( $\geq 24$ V DC)                          |
| Buffer time    | 30 min (20 A)                                                      |

#### General

|                                                        |                                         |
|--------------------------------------------------------|-----------------------------------------|
| Connection in parallel                                 | yes                                     |
|                                                        | max. 5                                  |
| Battery type                                           | Grepow, 3x 25.6 V GRP8056117-8S1P-A     |
| Battery technology                                     | Lithium-Ion (LiFePO <sub>4</sub> )      |
| 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                                     |
| Number of replacement battery kits                     | 3x (UPS-BAT-KIT/LI/24DC/94WH (1532141)) |

### Connection data

#### Battery

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

#### Connection technology

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

#### Conductor connection

|                                              |                                                                     |
|----------------------------------------------|---------------------------------------------------------------------|
| Connection method                            | Screw connection                                                    |
| rigid                                        | 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (recommended, 25 A fuse) |
|                                              | 4 mm <sup>2</sup> ... 16 mm <sup>2</sup> (recommended, 50 A fuse)   |
| flexible                                     | 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (recommended, 25 A fuse) |
|                                              | 4 mm <sup>2</sup> ... 16 mm <sup>2</sup> (recommended, 50 A fuse)   |
| flexible with ferrule without plastic sleeve | 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (recommended, 25 A fuse) |
|                                              | 4 mm <sup>2</sup> ... 16 mm <sup>2</sup> (recommended, 50 A fuse)   |
| flexible with ferrule with plastic sleeve    | 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (recommended, 25 A fuse) |

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|                       |                                           |
|-----------------------|-------------------------------------------|
|                       | 4 mm² ... 16 mm² (recommended, 50 A fuse) |
| AWG                   | 14 ... 6 (recommended, 25 A fuse)         |
|                       | 10 ... 6 (recommended, 50 A fuse)         |
| Stripping length      | 10 mm (recommended, 25 A fuse)            |
|                       | 10 mm (recommended, 50 A fuse)            |
| Tightening torque     | 1.2 Nm ... 1.5 Nm                         |
|                       | 15 lb <sub>F</sub> ·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 mm² ... 16 mm² (LIN) |
| flexible                                     | 0.75 mm² ... 16 mm² (LIN) |
| flexible with ferrule without plastic sleeve | 0.75 mm² ... 16 mm² (LIN) |
| flexible with ferrule with plastic sleeve    | 0.75 mm² ... 16 mm² (LIN) |
| AWG                                          | 20 ... 6                  |
| Stripping length                             | 10 mm (LIN)               |
| Tightening torque                            | 1.2 Nm ... 1.5 Nm         |
| Drive form screw head                        | Slotted L                 |

## Product properties

|                |                                                                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product family | Battery module (device with battery)                                                                                                                |
| 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  | 199 mm |
| Height | 197 mm |
| Depth  | 119 mm |

### Drill hole

|          |      |
|----------|------|
| Diameter | 5 mm |
|----------|------|

### Installation dimensions

|                                  |             |
|----------------------------------|-------------|
| Installation distance right/left | 0 mm / 0 mm |
|----------------------------------|-------------|

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|                                  |             |
|----------------------------------|-------------|
| 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                                 |
| Maximum altitude                               | max. 2000 m                                      |
| Max. permissible relative humidity (operation) | ≤ 95 %                                           |
| Shock                                          | 15g, 11 ms, half sine (IEC 60068-2-27)           |
| Vibration (operation)                          | 0,7g (DNV-GL / IEC 60068-2-6)                    |

## Ex data

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

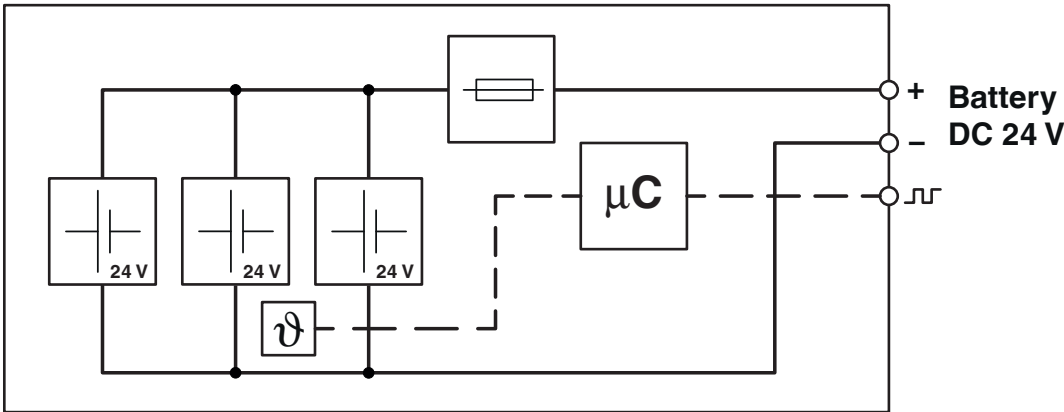
UPS-BAT/LI/24DC/284WH - Battery module



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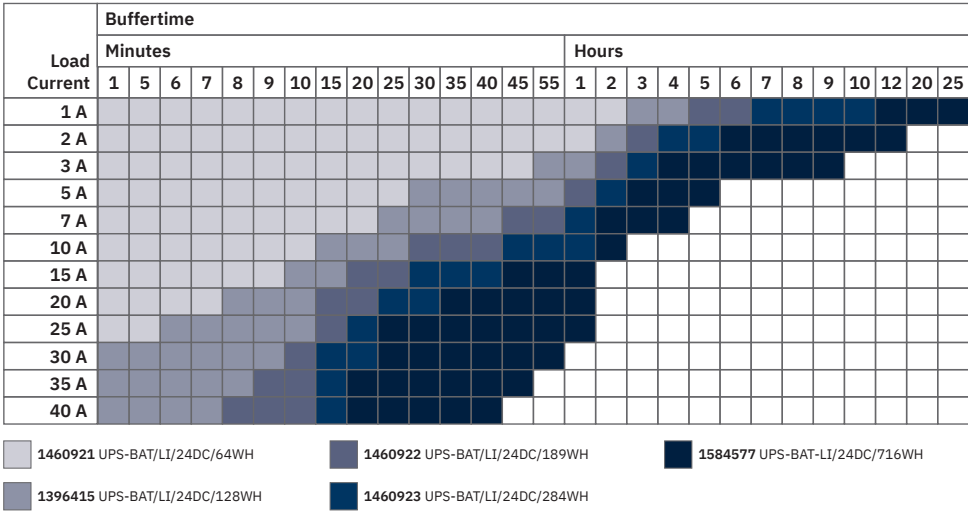
Drawings

Block diagram



Block diagram

Graphic



Lithium battery buffer times for QUINT DC UPS

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1460923>



**IECEE CB Scheme**  
Approval ID: SI-10466 A1



**cULus Listed**  
Approval ID: E123528-20230517

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



**cULus Listed**  
Approval ID: E199827-20230523

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27050403 |
| ECLASS-15.0 | 27050403 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003893 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26111700 |
|-------------|----------|

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) |
|-------------------------------------|----------------------|

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## Accessories

### FUSE 25A MAXI - Fuse

1634760

<https://www.phoenixcontact.com/pc/products/1634760>

Fuse, nominal current: 25 A



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### FUSE 50A MAXI - Fuse

1634761

<https://www.phoenixcontact.com/pc/products/1634761>

Fuse, nominal current: 50 A



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## UPS-BAT-KIT/LI/24DC/94WH - Battery module

1532141

<https://www.phoenixcontact.com/pc/products/1532141>



Replacement battery, Lithium-Ion (LiFePO<sub>4</sub>), 24 V DC, 94 Wh

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