

UPS-BAT/PB/24DC/12AH - Battery module



1274119

<https://www.phoenixcontact.com/us/products/1274119>

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Battery module (device with battery), VRLA-AGM, 24 V DC, 12 Ah, automatic detection and communication with QUINT UPS-IQ

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 fully charged before being sent to our warehouse.

Your advantages

- Maximum buffer times
- Lead AGM (Absorbent Glass Mat) technology

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1274119 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CM24 |
| Product key | CMUEV3 |
| GTIN | 4063151466510 |
| Weight per piece (including packing) | 9,930 g |
| Weight per piece (excluding packing) | 9,400 g |
| Customs tariff number | 85072080 |
| Country of origin | MY |

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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 (SELV) |
| Nominal capacity | min. 12 Ah |
| Charging current | 3.6 A |
| End-of-charge voltage | 27.6 V DC (20 °C) |

Output

| | |
|----------------|-------------------------------|
| Output voltage | 24 V DC |
| Output current | max. 50 A |
| Output fuse | 2x 25 A |
| Buffer time | 21 min (20 A) 8 min (40 A) |

General

| | |
|------------------------------------|--|
| Connection in parallel | yes max. 5 |
| Connection in series | no |
| Battery type | BB Battery BP 12-12FR LEOCH LHR 1255W |
| Battery technology | VRLA-AGM |
| IQ-Technology | yes |
| Latest startup date (battery only) | 12 Months (-20 °C ... 20 °C) 9 Months (25 °C) 6 Months (30 °C) |
| Service life | 6 Years (20 °C) |
| Size designation | Block |
| Battery pack | yes |
| Suitable for fast charging | yes |
| Temperature sensor | yes |
| Number of replacement battery kits | UPS-BAT-KIT/PB/2X12V/12AH (1283121) UPS-BAT-KIT/PB/2X12V/12AH/L (1859169) |

Connection data

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

Product properties

| | |
|----------------|--|
| Product type | Battery module |
| Product family | Battery module (device with battery) |
| Application | for QUINT4 DC-UPS, QUINT4 AC-UPS, QUINT-UPS, and TRIO-UPS-2G |
| Disposal | Used batteries must not be thrown away with household waste, |

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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 | 202 mm |
| Height | 202 mm |
| 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 |

Mounting

| | |
|---------------|--|
| Mounting type | Panel mounting, optional DIN rail mounting |
|---------------|--|

Material specifications

| | |
|------------------|---------------------------------------|
| Housing material | Metal |
| Type of housing | Galvanized sheet steel, powder-coated |

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (storage/transport) | -20 °C ... 40 °C |
| Ambient temperature (charge) | 0 °C ... 40 °C |
| Ambient temperature (discharge) | -20 °C ... 50 °C |
| Max. permissible relative humidity (operation) | ≤ 95 % |
| Shock | 15g, 11 ms, in each space 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) |
|----------------|---|

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Shipbuilding

| | |
|----------------|-----|
| Identification | DNV |
|----------------|-----|

Shipbuilding

| | |
|----------------|-----|
| Identification | ABS |
|----------------|-----|

Shipbuilding

| | |
|----------------|----|
| Identification | LR |
|----------------|----|

Shipbuilding

| | |
|----------------|----|
| Identification | BV |
|----------------|----|

Ex data

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

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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 | 24 | 40 | 60 |
| 15 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |
| 35 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |
| 55 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |
| 90 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |
| 125 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |
| 180 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |
| 275 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |
| 400 W | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red | Dark Red |

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

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

Lead battery buffer times for QUINT AC UPS 500 VA

Graphic

| Load Current | Buffertime | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|--|--|--|
| | Minutes | | | | | | | | | | | | | | Hours | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 8 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 1 | 1.5 | 2 | 3 | 4 | 6 | 9 | 10 | 15 | 20 | 24 | 40 | | | |
| 100 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 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 | 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 | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | |
| 400 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | |
| 500 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | |
| 600 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | |
| 700 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | |
| 800 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | | | |
| 900 W | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 2x | 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.

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

Buffer times for QUINT AC UPS 1 kVA

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1274119>

ABS

Approval ID: 22-2244289-PDA



EAC

Approval ID: RU*DE*01.B.78948/21



cULus Listed

Approval ID: FILE E 123528



LR

Approval ID: LR22136091TA



BV

Approval ID: 41516/B0 BV

DNV

Approval ID: TAA0000265



IECEE CB Scheme

Approval ID: DK-134807-A1-UL



IECEE CB Scheme

Approval ID: DK-134807-A1-UL



EAC

Approval ID: RU*DE*01.B.78948/21

ABS

Approval ID: 22-2244289-PDA



BV

Approval ID: 41516/B0 BV

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LR

Approval ID: LR22136091TA



cULus Listed

Approval ID: FILE E 123528

DNV

Approval ID: TAA0000265



cULus Listed

Approval ID: FILE E 199827



cULus Listed

Approval ID: FILE E 199827

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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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-8 |
| | 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 monoxide (lead oxide)(CAS: 1317-36-8) |
| | Lead(CAS: 7439-92-1) |
| SCIP | e5ec962e-167d-425b-85e2-113ddb104ff8 |

EF3.1 Climate Change

| | |
|---------|--------------|
| CO2e kg | 30.3 kg CO2e |
|---------|--------------|

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