

UPS-BAT/PB/24DC/40AH - Battery module



1354641

<https://www.phoenixcontact.com/us/products/1354641>

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Battery module (device with battery), VRLA-AGM, 24 V DC, 40 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
- Consists of 2 x 12 V battery modules and an electronic monitoring unit
- Lead AGM (Absorbent Glass Mat) technology

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1354641 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CM24 |
| Product key | CMUEV3 |
| GTIN | 4063151686215 |
| Weight per piece (including packing) | 30,390 g |
| Weight per piece (excluding packing) | 28,600 g |
| Customs tariff number | 85072080 |
| Country of origin | CN |

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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. 40 Ah |
| Charging current | 12 A |
| End-of-charge voltage | 27.6 V (20 °C) |

Output

| | |
|---------------------------|---------------|
| Output current I_{\max} | 45 A |
| Output fuse | 2x 25 A |
| Buffer time | 82 min (20 A) |
| | 35 min (40 A) |

General

| | |
|------------------------------------|---------------------------------------|
| Connection in parallel | yes |
| | max. 5 |
| Battery type | BB Battery BP 40-12FR |
| | LEOCH LHR 12160W |
| 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 | 8 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/40AH (1383182) |
| | UPS-BAT-KIT/PB/2X12V/40AH/L (1859171) |

Connection data

Conductor connection

| | |
|-------------------|--------------------|
| Connection method | Push-in connection |
|-------------------|--------------------|

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| | |
|------------------|---|
| rigid | 10 mm ² ... 16 mm ² (recommended) |
| | 0.75 mm ² ... 16 mm ² |
| flexible | 10 mm ² ... 16 mm ² (recommended) |
| | 0.75 mm ² ... 16 mm ² |
| AWG | 8 ... 4 (recommended) |
| | 20 ... 4 |
| Stripping length | 18 mm |

Conductor connection

| | |
|-------------------|---|
| Connection method | Push-in connection |
| rigid | 0.75 mm ² ... 16 mm ² (LIN) |
| flexible | 0.75 mm ² ... 16 mm ² (LIN) |
| AWG | 20 ... 4 |
| Stripping length | 18 mm |

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, 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 | 333 mm |
| Height | 173 mm |
| Depth | 199 mm |

Drill hole

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

Installation dimensions

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

Mounting

| | |
|-------------------|-----------------------------------|
| Mounting position | Horizontally, on a mounting panel |
|-------------------|-----------------------------------|

Material specifications

| | |
|------------------|---------|
| Housing material | Plastic |
|------------------|---------|

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Cable/line

Battery connecting cable:

| | |
|---------------------|-------------------|
| Cable cross section | 6 mm ² |
| Cable length | 340 mm |
| Color | red/black |

Battery connecting cable:

| | |
|---------------------|-------------------|
| Cable cross section | 6 mm ² |
| Cable length | 110 mm |
| Color | red/black |

Environmental and real-life conditions

Ambient conditions

| | |
|--|------------------|
| Degree of protection | IP20 |
| | 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 % |

Ex data

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

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Graphic

| Load Current | Buffertime | | | | | | | | | | | | | | | | | | | | |
|--------------|------------|----|----|----|----|----|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| | Minutes | | | | | | Hours | | | | | | | | | | | | | | |
| | 30 | 35 | 40 | 45 | 50 | 55 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 18 | 20 |
| 1 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 2 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 3 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 5 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 7 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 10 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 15 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

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

■ 1348516 UPS-BAT/PB/24DC/20AH ■ 1354641 UPS-BAT/PB/24DC/40AH

Lead battery buffer times for TRIO-UPS-2G

Graphic

| Load Current | Buffertime | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------------|----|----|----|----|----|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|-----|---|---|--|--|--|
| | Minutes | | | | | | Hours | | | | | | | | | | | | | | | | | | | | | |
| | 30 | 35 | 40 | 45 | 50 | 55 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 18 | 20 | 50 | 100 | | | | | |
| 1 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 2 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 3 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 5 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 7 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 10 A | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |

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

■ 1348516 UPS-BAT/PB/24DC/20AH ■ 1354641 UPS-BAT/PB/24DC/40AH ■ 1474660 UPS-BAT/PB/24DC/110 AH

Lead battery buffer times for TRIO3 UPS

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1354641>



LR

Approval ID: LR22136091TA



BV

Approval ID: 41516/B0 BV

ABS

Approval ID: 22-2244289-PDA



cULus Listed

Approval ID: E123528-20220210

DNV

Approval ID: TAA0000265



IECEE CB Scheme

Approval ID: DK-124876-M1-UL



IECEE CB Scheme

Approval ID: DK-124876-M1-UL

ABS

Approval ID: 22-2244289-PDA



BV

Approval ID: 41516/B0 BV



LR

Approval ID: LR22136091TA



cULus Listed

Approval ID: E123528-20220210

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

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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.) | Diboron trioxide(CAS: 1303-86-2) |
| | Lead monoxide (lead oxide)(CAS: 1317-36-8) |
| | Lead(CAS: 7439-92-1) |
| | Diboron trioxide(CAS: 1303-86-2) |
| | Lead monoxide (lead oxide)(CAS: 1317-36-8) |
| | Lead(CAS: 7439-92-1) |
| SCIP | b37be338-986f-4ff6-9398-0a1cf9120f8f |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 181.6 kg CO2e |
|---------|---------------|

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