

# UPS-BAT/PB/24DC/4AH - Battery module



1274117

<https://www.phoenixcontact.com/us/products/1274117>

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Battery module (device with battery), VRLA-AGM, 24 V DC, 4 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	1274117
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM24
Product key	CMUEV3
GTIN	4063151466619
Weight per piece (including packing)	4,048 g
Weight per piece (excluding packing)	3,540 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".
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### Energy storage

#### Input

Input voltage	24 V DC (SELV)
Nominal capacity	4 Ah
Charging current	1.2 A
End-of-charge voltage	27.6 V DC (20 °C)

#### Output

Output voltage	24 V DC
Output current	max. 25 A
Output fuse	1x 25 A
Buffer time	4.5 min (20 A) 3 min (25 A)

#### General

Connection in parallel	yes max. 5
Connection in series	no
Battery type	BB Battery HR4.2-12FR
Battery technology	VRLA-AGM
IQ-Technology	yes
Latest startup date (battery only)	6 Months (0 °C ... 20 °C)
Latest startup (battery only) - range	3 Months ... 6 Months (20 °C ... 30 °C) 1 Months ... 3 Months (30 °C ... 40 °C)
Service life	6 Years (20 °C)
Storage medium	VRLA-AGM
Size designation	Block
Battery pack	yes
Suitable for fast charging	yes
Temperature sensor	yes
Number of replacement battery kits	1x (UPS-BAT-KIT/PB/2X12V/4AH (1283116))

### Connection data

#### Battery

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Position	4.x
Connection technology	
Position marking	4.1 (+), 4.2 (-)
Conductor connection	
Connection method	Screw connection
rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
	4 mm <sup>2</sup> (recommended)
flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
	4 mm <sup>2</sup> (recommended)
flexible with ferrule without plastic sleeve	4 mm <sup>2</sup> (recommended)
flexible with ferrule with plastic sleeve	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
AWG	24 ... 10
	12 ... 10 (recommended)
Stripping length	8 mm (recommended)
	8 mm
Tightening torque	0.5 Nm ... 0.6 Nm
	5 lb <sub>f</sub> -in. ... 7 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	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup> (LIN)
flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup> (LIN)
flexible with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup> (LIN)
flexible with ferrule with plastic sleeve	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup> (LIN)
AWG	24 ... 10 (LIN)
Stripping length	8 mm (LIN)
Tightening torque	0.5 Nm ... 0.6 Nm (LIN)
	5 lb <sub>f</sub> -in. ... 7 lb <sub>f</sub> -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, they should instead be disposed of in accordance with applicable national regulations.

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## Insulation characteristics

Protection class	III
Degree of pollution	2

## Dimensions

### Item dimensions

Width	85 mm
Height	191 mm
Depth	110 mm

### Drill hole

Diameter	5 mm
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### Installation dimensions

Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	5 mm / 5 mm

## Mounting

Mounting position	horizontal DIN rail NS 35, EN 60715
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## Material specifications

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

## 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 %
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
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### 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

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Identification	DNV
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## Shipbuilding

Identification	ABS
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## Shipbuilding

Identification	LR
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## Shipbuilding

Identification	BV
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## 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/1274117>

### 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

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	500 V	41 A	-	- 6



### IECEE CB Scheme

Approval ID: DK-134807-A1-UL



### 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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### 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	f1ea58dc-09c6-4e42-9e0a-89dfbee109dd

### EF3.1 Climate Change

CO2e kg	20.22 kg CO2e
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