

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".
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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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1354641

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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
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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
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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									
	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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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 DC 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)
SCIP	Lead(CAS: 7439-92-1)
	b37be338-986f-4ff6-9398-0a1cf9120f8f

EF3.1 Climate Change

CO2e kg	181.6 kg CO2e
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com