

UPS-BAT/LI/24DC/64WH - Battery module



1460921

<https://www.phoenixcontact.com/us/products/1460921>

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Battery module (device with battery), Lithium-Ion (LiFePO₄), 24 V DC, 64 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	1460921
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM24
Product key	CMUEL3
GTIN	4063151851361
Weight per piece (including packing)	2,049 g
Weight per piece (excluding packing)	1,649 g
Customs tariff number	85076000
Country of origin	CN

Technical data

Energy storage

Input

Input voltage	24 V DC
Nominal capacity	64 Wh
	2.5 Ah
Charging current	5 A
End-of-charge voltage	28.4 V DC (20 °C)

Output

Output current	max. 25 A (Derating: -20 °C ... 0 °C, 10 A ... 20 A)
Output fuse	1x 25 A MAXI Blade Fuse (≥ 24 V DC)
Buffer time	7 min (20 A)

General

Connection in parallel	yes
	max. 5
Battery type	Grepow, 25.6 V GRP6053117-8S1P-A
Battery technology	Lithium-Ion (LiFePO ₄)
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	1x (UPS-BAT-KIT/LI/24DC/64WH (1446073))

Connection data

Battery

Position	4.x
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Connection technology

Position marking	4.1 (+), 4.2 (-)
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Conductor connection

Connection method	Screw connection
rigid	2.5 mm ² ... 16 mm ² (recommended)
flexible	2.5 mm ² ... 16 mm ² (recommended)
flexible with ferrule without plastic sleeve	2.5 mm ² ... 16 mm ² (recommended)
flexible with ferrule with plastic sleeve	2.5 mm ² ... 16 mm ² (recommended)
AWG	14 ... 6 (recommended)
Stripping length	10 mm (recommended)
	10 mm

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Tightening torque	1.2 Nm ... 1.5 Nm 15 lb _F -in.
Drive form screw head	Slotted L

LIN

Position	4.x
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Connection technology

Position marking	4.3 (UL 100)
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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
Stripping length	10 mm (LIN)
Tightening torque	1.2 Nm ... 1.5 Nm
Drive form screw head	Slotted L

Product properties

Product type	Battery module
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	87 mm
Height	197 mm
Depth	119 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

Environmental and real-life conditions

Ambient conditions

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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
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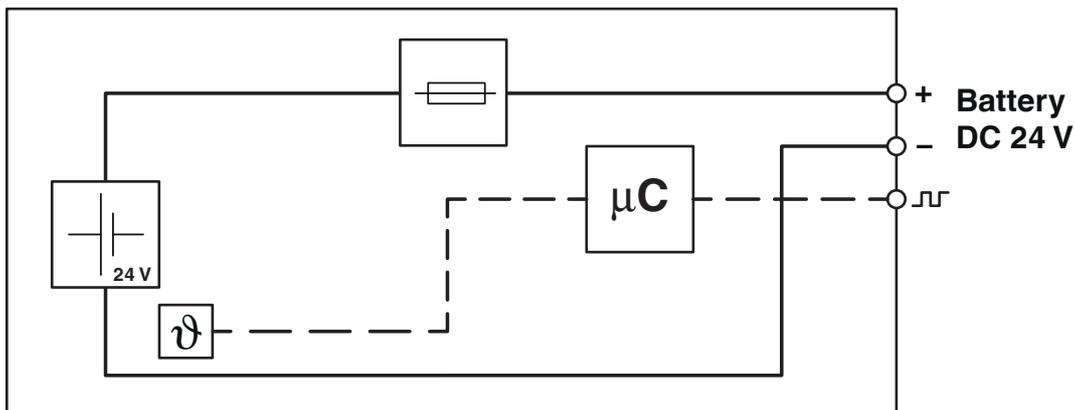


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Drawings

Block diagram



Block diagram

Graphic

Load Current	Buffertime																							
	Minutes															Hours								
	1	5	6	7	8	9	10	15	20	25	30	35	40	45	55	1	2	3	4	5	6	7	8	9
1 A	[Shaded]																							
2 A	[Shaded]															[Shaded]								
3 A	[Shaded]										[Shaded]					[Shaded]								
5 A	[Shaded]					[Shaded]										[Shaded]								
7 A	[Shaded]					[Shaded]					[Shaded]													
10 A	[Shaded]					[Shaded]					[Shaded]													
15 A	[Shaded]					[Shaded]					[Shaded]													
20 A	[Shaded]					[Shaded]					[Shaded]													
25 A	[Shaded]					[Shaded]					[Shaded]													
30 A	[Shaded]					[Shaded]					[Shaded]													
35 A	[Shaded]					[Shaded]					[Shaded]													
40 A	[Shaded]					[Shaded]					[Shaded]													

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

- 1460921 UPS-BAT/LI/24DC/64WH
- 1396415 UPS-BAT/LI/24DC/128WH
- 1460922 UPS-BAT/LI/24DC/189WH
- 1460923 UPS-BAT/LI/24DC/284WH

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/us/products/1460921>



IECEE CB Scheme
Approval ID: SI-10466 A1



cULus Listed
Approval ID: E123528-20230517

DNV

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 9.0	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(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.)	Lead(CAS: 7439-92-1)
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