

UPS-CAP/24DC/10A/10KJ - Energy storage



2320377

<https://www.phoenixcontact.com/us/products/2320377>

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Maintenance-free energy storage based on double-layer capacitor, 24 V DC, 10 kJ, 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 energy storage, and tool-free switching during operation, quick installation is possible. The QUINT UPS with IQ technology energy storage leaves the warehouse fully charged.

Your advantages

- Maximum service life
- Maintenance-free double layer condensators

Commercial data

Item number	2320377
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM24
Product key	CMUEC3
Catalog page	Page 334 (C-4-2019)
GTIN	4046356599047
Weight per piece (including packing)	2,111 g
Weight per piece (excluding packing)	1,700 g
Customs tariff number	85322900
Country of origin	CN

Technical data

Input data

DC operation

Input voltage	24 V DC
Input voltage range	18 V DC ... 30 V DC
Input voltage range DC	18 V DC ... 30 V DC
Buffer period	6 min. (1 A)
	33 s (10 A)
Current consumption	5 A

Output data

Nominal output voltage	24 V DC
Setting range of the output voltage (U_{Set})	22 V DC ... 27 V DC
Nominal output current (I_N)	10 A
POWER BOOST (I_{Boost})	15 A
Power loss nominal load max.	3.6 W
Power dissipation	3.6 W
Output fuse	1x 25 A (internal)
Connection in series	No

Battery operation

Nominal output voltage	24 V DC
Output voltage range	22 V DC ... 27 V DC
Nominal output current (I_N)	10 A

Energy storage

Charging current	5 A
Nominal capacity	0.1 Ah
Battery module service life	20 Years (20 °C)
Battery technology	UPS-CAP
Memory medium	Dual layer capacitor
Number of cells	1
Size designation	Block
Battery pack	yes
Disposal	Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations.
IQ technology	Yes
Temperature sensor	yes
Suitable for fast charging	yes

Electrical properties

Insulation voltage input, output / housing	500 V AC
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Product properties

Product type	Battery unit
Disposal	Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations.
IQ technology	Yes
MTBF (IEC 61709, SN 29500)	> 725000 h (40 °C)

Insulation characteristics

Protection class	III
Degree of pollution	2

Life expectancy (electrolytic capacitors)

Time	100000 h
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Dimensions

Width	126 mm
Height	130 mm
Depth	126 mm

Installation dimensions

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

Mounting

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

Housing material	Metal
Type of housing	Aluminum (ALMG3), sheet steel (galvanized)
Housing material	Steel sheet, zinc-plated

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °C
Maximum altitude	2000 m
Max. permissible relative humidity (operation)	≤ 95 %
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ±2,5 mm, 15 Hz ... 150 Hz, according to IEC 60068-2-6 15 Hz ... 150 Hz, 2.3g, 90 min.

Standards and regulations

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Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)

Approvals

Shipbuilding approval	GL applied for
UL approvals	UL/C-UL Recognized UL 60950-1

Ex data

Suited for EX-applications	No
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EMC data

EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2

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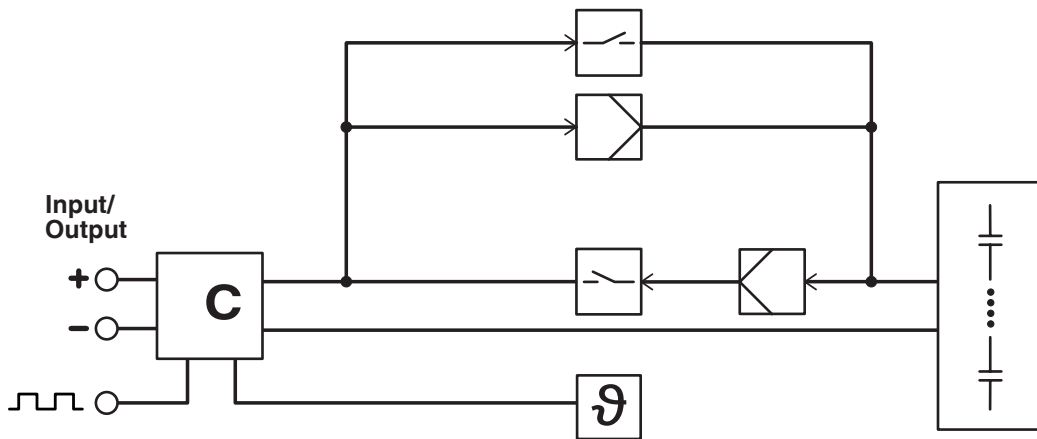


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Drawings

Block diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2320377>



cUL Recognized
Approval ID: FILE E 211944



UL Recognized
Approval ID: FILE E 211944



EAC
Approval ID: EAC-Zulassung



LR
Approval ID: LR22136091TA



BV
Approval ID: 41516/B0 BV



EAC
Approval ID: RU D.GB09.W.00881/20



UL Listed
Approval ID: FILE E 123528



cUL Listed
Approval ID: FILE E 123528

ABS

Approval ID: 22-2244289-PDA

DNV

Approval ID: TAA0000265

Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
500 V	41 A	-	- 6



cUL Listed
Approval ID: FILE E 199827

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Classifications

ECLASS

ECLASS-11.0	27050403
ECLASS-13.0	27050403
ECLASS-12.0	27050403

ETIM

ETIM 8.0	EC000357
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UNSPSC

UNSPSC 21.0	26111700
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

UWA 130 - Mounting adapter

2901664

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2-piece universal wall adapter for securely mounting the device in the event of strong vibrations. The profiles that are screwed onto the side of the device are screwed directly onto the mounting surface. The universal wall adapter is attached on the left/right.



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