

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



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
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
Service life	20 Years (20 °C)
Memory medium	Dual layer capacitor
Number of cells	11
Size designation	Block
IQ technology	Yes
Temperature sensor	yes
Suitable for fast charging	yes

### Connection data

#### Input

Connection method	Screw connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.6 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>

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Conductor cross-section flexible max.	2.4 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	12
Stripping length	8 mm
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

## Electrical properties

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

Product type	Battery module
Product family	Energy storage
Application	for QUINT UPS
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
Housing material	Steel sheet, zinc-plated
Type of housing	Aluminum (ALMG3), sheet steel (galvanized)

## 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

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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

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

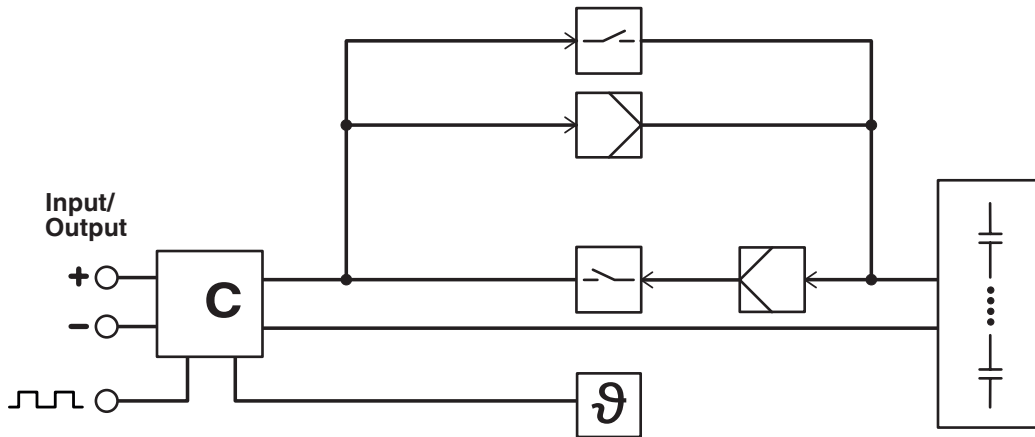
Suited for EX-applications	no
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## EMC data

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

## 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: E211944



**UL Recognized**  
Approval ID: E211944



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



**LR**  
Approval ID: LR22136091TA



**BV**  
Approval ID: 41516/B0 BV



**UL Listed**  
Approval ID: E123528



**cUL Listed**  
Approval ID: E123528

**ABS**

Approval ID: 22-2244289-PDA

**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: DE/PTZ/0072

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**cUL Listed**

Approval ID: E199827



**UL Listed**

Approval ID: E199827

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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(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)
SCIP	caeaae36-0831-4602-ab88-c94839edc2b9

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