

# 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
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

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## 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, maximum service life, due to maintenance-free double layer condensators ( )
Memory medium	Dual layer capacitor
Number of cells	1
Size designation	Block
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	DC UPS with integrated capacitor
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Product family	Energy storage
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

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

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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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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	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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