

# 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        |
| GTIN                                 | 4046356599047 |
| Weight per piece (including packing) | 2,134 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 |
|--|----------|

## 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 |
|------|----------|

## 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 |
|-------------------|-------------------------------------|

## 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 |
|----------------------------|----|

## 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 |

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

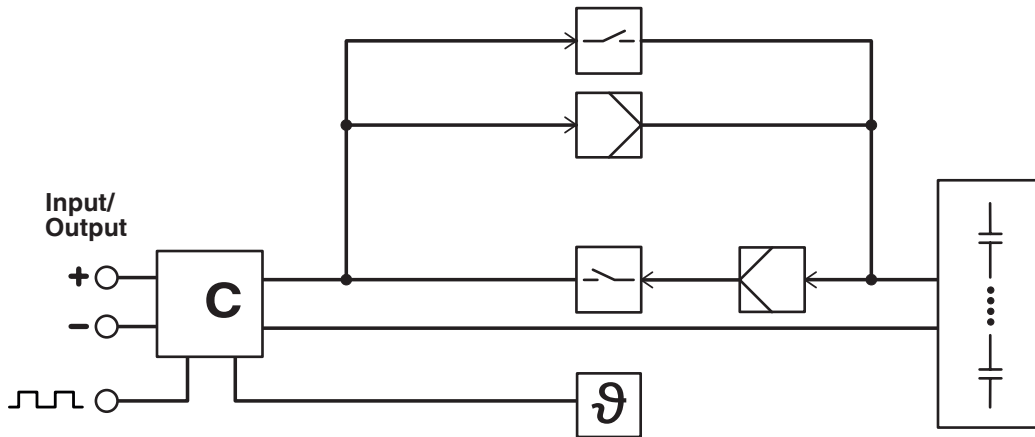


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## Drawings

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: 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 $mm^2$ |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | 500 V                 | 41 A                  | -                 | - 6                  |



**IECEE CB Scheme**  
Approval ID: DE/PTZ/0072

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**cUL Listed**

Approval ID: E199827



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Approval ID: E199827

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27050403 |
| ECLASS-15.0 | 27050403 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003893 |
|-----------|----------|

### 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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