

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 |
| 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 ² |
| Conductor cross section, rigid max. | 2.6 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |

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



2320377

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

| | |
|---------------------------------------|---------------------|
| Conductor cross section flexible max. | 2.4 mm ² |
| 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 |
| IQ technology | Yes |
| MTBF (IEC 61709, SN 29500) | > 725000 h (40 °C) |

Data management status

| | |
|------------------|----|
| Article revision | 07 |
|------------------|----|

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 |
|----------------------|------|

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



2320377

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

| | |
|--|--|
| 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

| | |
|-----------------------|-------------------------------|
| 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

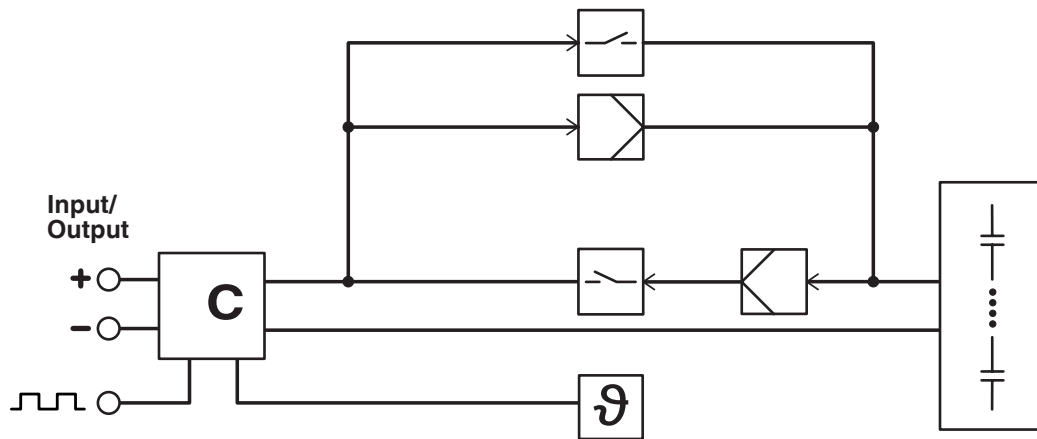


2320377

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

Drawings

Block diagram



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




2320377


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

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: 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: 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 |
| | 500 V | 41 A | - | - 6 |




IECEE CB Scheme
Approval ID: DE/PTZ/0072

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




2320377

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



cUL Listed
Approval ID: E199827



UL Listed
Approval ID: E199827

cULus Recognized

cULus Listed

cULus Listed

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



2320377

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

Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000357 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26111700 |
|-------------|----------|

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 | caeaee36-0831-4602-ab88-c94839edc2b9 |

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



2320377

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

Accessories

UWA 130 - Mounting adapter

2901664

<https://www.phoenixcontact.com/us/products/2901664>



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.

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com