

UPS-CAP/24DC/20A/20KJ - Energy storage



2320380

<https://www.phoenixcontact.com/us/products/2320380>

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Maintenance-free energy storage based on double-layer capacitor, 24 V DC, 20 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 | 2320380 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CM24 |
| Product key | CMUEC3 |
| GTIN | 4046356599030 |
| Weight per piece (including packing) | 3,508 g |
| Weight per piece (excluding packing) | 2,884 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 | 12 min (1 A) |
| | 33 s (20 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) | 20 A |
| POWER BOOST (I_{Boost}) | 26 A |
| Power loss nominal load max. | 3.6 W |
| Power dissipation | 3.6 W |
| Output fuse | 2x 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) | 20 A |

Energy storage

| | |
|----------------------------|----------------------|
| Charging current | 5 A |
| Nominal capacity | 0.2 Ah |
| Service life | 20 Years (20 °C) |
| Memory medium | Dual layer capacitor |
| Number of cells | 22 |
| 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. | 0.5 mm ² |
| Conductor cross-section, rigid max. | 16 mm ² |
| Conductor cross-section flexible min. | 0.5 mm ² |

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| | |
|---------------------------------------|--------------------|
| Conductor cross-section flexible max. | 16 mm ² |
| Conductor cross-section AWG min. | 20 |
| Conductor cross-section AWG max. | 6 |
| Stripping length | 10 mm |
| Tightening torque, min | 1.2 Nm |
| Tightening torque max | 1.5 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) | > 695000 h (40 °C) |

Insulation characteristics

| | |
|---------------------|-----|
| Protection class | III |
| Degree of pollution | 2 |

Life expectancy (electrolytic capacitors)

| | |
|------|----------|
| Time | 100000 h |
|------|----------|

Dimensions

| | |
|--------|--------|
| Width | 150 mm |
| Height | 130 mm |
| Depth | 176 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 |

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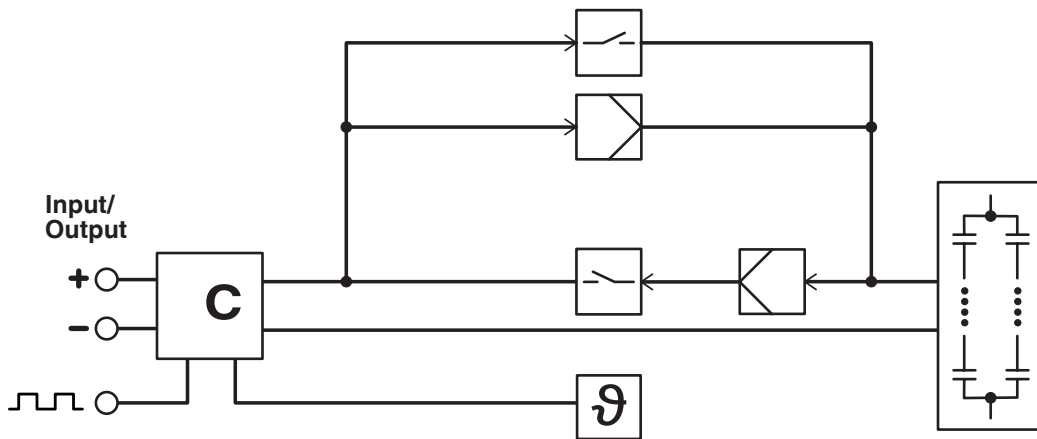


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Drawings

Block diagram



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Approvals


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 **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



UL Listed

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 | 7eae853e-2252-4512-852b-893866a29553 |

EF3.1 Climate Change

| | |
|---------|----------------|
| CO2e kg | 33.056 kg CO2e |
|---------|----------------|

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