

Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

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Uninterruptible power supply with IQ technology for DIN rail mounting, input: 24 V DC, output: 24 V DC/20 A, including mounted universal DIN rail adapter UTA 107/30

Product Features

- Easy handling thanks to automatic battery detection, tool-free battery replacement during operation, and communication via the IFS interface
- Reliable starting of difficult loads with the static POWER BOOST power reserve with up to 1.5 times the nominal current permanently
- Fast tripping of standard circuit breakers with SFB (selective fuse breaking) technology
- Device suitable for universal use thanks to comprehensive license package and extensive parameterization and diagnostics options



Key Commercial Data

| | |
|--------------------------------------|---------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 820.0 g |
| Country of origin | China |

Technical data

Dimensions

| | |
|----------------------------------|--------|
| Width | 40 mm |
| Height | 130 mm |
| Depth | 125 mm |
| Width with alternative assembly | 123 mm |
| Height with alternative assembly | 130 mm |
| Depth with alternative assembly | 43 mm |

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

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Ambient conditions

| | |
|--|-------------------------------|
| Max. permissible relative humidity (operation) | ≤ 95 % (25°C, non-condensing) |
| Noise immunity | EN 61000-6-2:2005 |

Input data

| | |
|--|-----------------------------------|
| Nominal input voltage | 24 V DC |
| Current consumption (maximum) | 32.9 A (Maximum, mains operation) |
| Current consumption (charging process) | 6.9 A (Charging, mains operation) |
| Fixed connect threshold | ≤ 22 V DC |
| Variable connect threshold | 1 V/0.1 s |

Output data (24 V DC mains operation)

| | |
|---|--------------------------|
| Nominal output voltage | 24 V DC |
| Output voltage range (depends on the input voltage) | 18 V DC ... 30 V DC |
| Nominal output current (I_N) | 20 A (-25 °C ... 60 °C) |
| POWER BOOST (I_{Boost}) | 26 A (-25°C ... 40°C) |
| Selective Fuse Breaking (I_{SFB}) | 120 A (-25 °C ... 60 °C) |

Output data (24 V DC battery operation)

| | |
|---|--|
| Nominal output voltage | 24 V DC |
| Output voltage range (depends on the input voltage) | 19.2 V DC ... 27.6 V DC ($U_{OUT} = U_{BAT} - 0.5 \text{ V DC}$) |
| Nominal output current (I_N) | 20 A (-25 °C ... 60 °C) |
| POWER BOOST (I_{Boost}) | 27 A (-25°C ... 40°C) |
| Selective Fuse Breaking (I_{SFB}) | 120 A (-25 °C ... 60 °C) |

General output data

| | |
|------------|--|
| Efficiency | > 98 % (Mains operation, with charged power storage) |
|------------|--|

General

| | |
|----------------------------|---|
| IQ technology | Yes |
| Net weight | 0.6 kg |
| Protection class | III |
| MTBF (IEC 61709, SN 29500) | > 500000 h (40°C) |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | Can be aligned: horizontal 5 mm, vertical 50 mm |

Connection data, input

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |

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Connection data, input

| | |
|---------------------------------------|-------------------|
| Conductor cross section flexible max. | 4 mm ² |
| Conductor cross section AWG min. | 12 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 8 mm |
| Screw thread | M4 |

Connection data, output

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| Conductor cross section AWG min. | 12 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 8 mm |
| Screw thread | M4 |

Connection data for signaling

| | |
|---------------------------------------|---------------------|
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 12 |
| Screw thread | M4 |

Standards and Regulations

| | |
|--|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise immunity | EN 61000-6-2:2005 |
| Connection in acc. with standard | CUL |
| Standards/regulations | EN 61000-4-2 |
| | EN 61000-4-3 |
| | EN 61000-4-4 |
| | EN 61000-4-5 |
| | EN 61000-4-6 |
| Standard - Electrical safety | EN 60950-1/VDE 0805 (SELV) |
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV) |
| UL approvals | UL Listed UL 508 |

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Standards and Regulations

| | |
|-----------------------|--|
| | UL/C-UL Recognized UL 60950 |
| | UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |
| Vibration (operation) | < 15 Hz, amplitude ± 2.5 mm (according to IEC 60068-2-6) |
| | 15 Hz ... 150 Hz, 2.3g $t_v = 90$ min. |
| Low Voltage Directive | Conformance with LV directive 2006/95/EC |
| Rail applications | EN 50121-4 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27040702 |
| eCl@ss 4.1 | 27040702 |
| eCl@ss 5.0 | 27242213 |
| eCl@ss 5.1 | 27040603 |
| eCl@ss 6.0 | 27040603 |
| eCl@ss 7.0 | 27040603 |
| eCl@ss 8.0 | 27040603 |
| eCl@ss 9.0 | 27040705 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001039 |
| ETIM 4.0 | EC000382 |
| ETIM 5.0 | EC000382 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211510 |
| UNSPSC 7.0901 | 39121011 |
| UNSPSC 11 | 39121011 |
| UNSPSC 12.01 | 39121011 |
| UNSPSC 13.2 | 39121011 |

Approvals

Approvals

Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / EAC / ABS / BV / cULus Recognized / cULus Listed

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Approvals

Ex Approvals


UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized 

UL Listed 

cUL Recognized 

cUL Listed 

EAC

EAC

ABS

BV

cULus Recognized 

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Approvals

cULus Listed 

Accessories

Accessories

Assembly adapter

Assembly adapters - UWA 182/52 - 2938235



Universal wall adapter

Assembly adapters - QUINT-PS-ADAPTERS7/1 - 2938196



Assembly adapter for QUINT-PS... power supply on S7-300 rail

Assembly adapters - UTA 107/30 - 2320089



Universal DIN rail adapter

Battery unit

Energy storage - UPS-BAT/VRLA/24DC/3.4AH - 2320306



Energy storage device, lead AGM, VRLA technology, 24 V DC, 3.4 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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Accessories

Energy storage - UPS-BAT/VRLA/24DC/7.2AH - 2320319



Energy storage device, lead AGM, VRLA technology, 24 V DC, 7.2 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

Energy storage - UPS-BAT/VRLA/24DC/12AH - 2320322



Energy storage device, lead AGM, VRLA technology, 24 V DC, 12 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

Energy storage - UPS-BAT/LI-ION/24DC/120WH - 2320351



Energy storage device, LI-ION technology, 24 V DC, 120 Wh, for ambient temperatures of -20°C ... 60°C, automatic detection and communication with QUINT UPS-IQ

Energy storage - UPS-BAT/VRLA/24DC/38AH - 2320335



Energy storage device, lead AGM, VRLA technology, 24 V DC, 38 Ah, automatic detection, and communication with QUINT UPS-IQ

Energy storage - UPS-CAP/24DC/10A/10KJ - 2320377



Maintenance-free power storage based on double-layer capacitor, 24 V DC, 10 kJ, automatic detection and communication with QUINT UPS-IQ

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Accessories

Energy storage - UPS-CAP/24DC/20A/20KJ - 2320380



Maintenance-free power storage based on double-layer capacitor, 24 V DC, 20 kJ, automatic detection and communication with QUINT UPS-IQ

Energy storage - UPS-BAT/VRLA-WTR/24DC/13AH - 2320416



Energy storage device, lead AGM, VRLA technology, 24 V DC, 13 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

Energy storage - UPS-BAT/VRLA-WTR/24DC/26AH - 2320429



Energy storage device, lead AGM, VRLA technology, 24 V DC, 26 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

Data cable preassembled

Data cable - IFS-USB-DATACABLE - 2320500



Used for communicating between industrial PCs and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS or TRIO UPS.

Data cable - IFS-RS232-DATACABLE - 2320490



Data cable for communication between devices with a D-SUB 9 RS-232 connection and Phoenix Contact devices with the 12-pos. IFS data port such as QUINT UPS-IQ or TRIO UPS.

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Accessories

Memory block

Memory block - IFS-CONFSTICK - 2986122



Multi-functional memory block for the INTERFACE systemf for easy storage and backup of the configuration.

Drawings

Block diagram

