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Uninterruptible power supply with IQ technology 1AC/1AC/500 VA. For 120 V AC/230 V AC applications. Provides information regarding the charging state, remaining runtime, and service life of your rechargeable battery module at all times and thereby increases system availability.

Product Description

The UPS module for 120 V AC/230 V AC delivers a pure sine curve at the output. For 400 W/500 VA of power, only one energy storage is required, the power supply is already integrated.

Your advantages

- Optimum use of the buffer time and preventive monitoring of the energy storage
- Can be used worldwide
- Maximum efficiency
- Comprehensive signaling and parameterization



Key Commercial Data

| Packing unit | 1 pc |
|--------------------------------------|-----------------|
| GTIN | 4 046356 560078 |
| GTIN | 4046356560078 |
| Weight per Piece (excluding packing) | 2,201.000 g |
| Custom tariff number | 85371091 |
| Country of origin | Germany |

Technical data

Dimensions

| Width | 125 mm |
|--------|--------|
| Height | 130 mm |
| Depth | 125 mm |

Ambient conditions

| , | |
|----------------------|------|
| Degree of protection | IP20 |



Technical data

Ambient conditions

| Ambient temperature (operation) | -25 °C 70 °C (> 50 °C Derating: 2.5 %/K) |
|--|--|
| Ambient temperature (start-up type tested) | -40 °C |
| Ambient temperature (storage/transport) | -40 °C 85 °C |
| Max. permissible relative humidity (operation) | ≤ 95 % (25 °C, non-condensing) |
| Climatic class | 3K3 (in acc. with EN 60721) |

Input data

| Nominal input voltage | 240 V AC |
|-------------------------|------------------------|
| | 100 V AC |
| | 120 V AC -20 % / +15 % |
| | 230 V AC -20 % / +15 % |
| | 100 V AC 240 V AC |
| Input voltage range | 184 V AC 264 V AC |
| | 96 V AC 138 V AC |
| | 96 V AC 264 V AC |
| AC frequency range | 45 Hz 65 Hz |
| Buffer period | 1 h (38 AH) |
| Permissible backup fuse | B16 230 V AC |
| Power factor (cos phi) | 0.8 |

Output data

| Nominal output voltage | 120 V AC |
|--|------------------------------|
| | 230 V AC |
| Nominal output current (I _N) | 4.3 A (120 V AC, -25°C 50°C) |
| | 2.2 A (230 V AC, -25°C 40°C) |
| POWER BOOST (I _{Boost}) | 5.2 A (120 V AC, -25°C 40°C) |
| | 2.7 A (230 V AC, -25°C 40°C) |
| Derating | > 50 °C 70 °C (2.5%/K) |
| Connection in parallel | no |
| Connection in series | No |

General

| IQ technology | Yes |
|-----------------------|--|
| Net weight | 2.2 kg |
| Efficiency | > 98 % (Mains operation) |
| | > 98 % |
| | > 86 % |
| Protection class | 1 |
| Degree of protection | IP20 |
| | > (40 °C) |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | alignable: $P_N \ge 50\%$, 5 mm horizontally, 15 mm next to active components, 50 mm vertically |



Technical data

General

| alignable: P _N <50%, 0 mm horizontally, 40 mm vertically top, 20 mm |
|--|
| vertically bottom |

Connection data, input

| Connection method | Screw connection |
|---------------------------------------|------------------|
| Conductor cross section solid min. | 1.5 mm² |
| Conductor cross section solid max. | 6 mm² |
| Conductor cross section flexible min. | 1.5 mm² |
| Conductor cross section flexible max. | 4 mm² |
| Conductor cross section AWG min. | 18 |
| 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. | 1.5 mm² |
| Conductor cross section solid max. | 6 mm² |
| Conductor cross section flexible min. | 1.5 mm² |
| Conductor cross section flexible max. | 4 mm² |
| Conductor cross section AWG min. | 18 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 8 mm |
| Screw thread | M4 |

Connection data for signaling

| Connection method | Screw connection |
|---------------------------------------|---------------------|
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 8 mm |
| Screw thread | M4 |

Standards and Regulations

| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
|----------------------------------|---|
| Connection in acc. with standard | CUL |
| Standards/regulations | EN 62040-2 |
| Contact discharge | 4 kV (Test Level 2) |
| Standards/regulations | EN 61000-4-3 |
| Frequency range | 80 MHz 1 GHz |



Technical data

Standards and Regulations

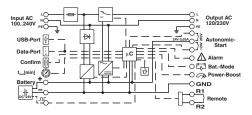
| Test field strength | 10 V/m |
|--|---|
| Frequency range | 1.4 GHz 2 GHz |
| Test field strength | 3 V/m |
| Standards/regulations | EN 61000-4-4 |
| Comments | Criterion B |
| Standards/regulations | EN 62040-2 (Class C1) |
| | EN 61000-4-6 |
| Frequency range | 0.15 MHz 80 MHz |
| Voltage | 10 V (Test Level 3) |
| Standard – Limitation of mains harmonic currents | EN 61000-3-2 (Class A) |
| UL approvals | UL/C-UL Recognized UL 1778 |
| Shock | 18 ms, 30g, in each space direction (according to IEC 60068-2-27) |
| Vibration (operation) | < 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6) |
| | 15 Hz 150 Hz, 2.3g t _v = 90 min. |
| Rail applications | EN 50121-4 |

Environmental Product Compliance

| | Lead 7439-92-1 |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Block diagram



Classifications

eCl@ss

| eCl@ss 4.0 | 27040702 |
|------------|----------|
| eCl@ss 4.1 | 27040702 |
| eCl@ss 5.0 | 27242213 |
| eCl@ss 5.1 | 27040600 |
| eCl@ss 6.0 | 27040600 |
| eCl@ss 7.0 | 27040602 |
| eCl@ss 8.0 | 27040602 |



Classifications

| eCl | @ss |
|--------|----------------------------|
| \sim | (ω, ω, ω) |

| 27710700 | eCl@ss 9.0 | 27040705 |
|----------|------------|----------|
|----------|------------|----------|

ETIM

| ETIM 3.0 | EC001039 |
|----------|----------|
| ETIM 4.0 | EC000382 |
| ETIM 5.0 | EC000382 |
| ETIM 6.0 | EC000382 |
| ETIM 7.0 | 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 / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approval details

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 342453

cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 342453

EAC EAC-Zulassung



Approvals

EAC

EHC

RU C-DE.A*30.B.01082

cULus Recognized



Accessories

Accessories

Assembly adapter

Assembly adapters - UWA 130 - 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.

Assembly adapters - UWA 182/52 - 2938235



Universal wall adapter for securely mounting the device in the event of strong vibrations. The device is screwed directly onto the mounting surface. The universal wall adapter is attached on the top/bottom.

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

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



Accessories

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/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-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

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



Accessories

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



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

Data cable preassembled

Data cable - IFS-MINI-DIN-DATACABLE - 2320487



Data cable for communication, e.g., between Phoenix Contact type ILC 1xx Inline controllers and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS-IQ 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.

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.

Fuse

Fuse - FUSE 10A/400V GRL - 2908358



Fuse, nominal current: 10 A, length: 31.8 mm, diameter: 6.35 mm

Memory block



Accessories

Memory block - IFS-CONFSTICK-L - 2901103



Multi-functional memory block with handle for the INTERFACE system; for easy storage and back up of the configuration.

Memory block - IFS-CONFSTICK-L - 2901103



Multi-functional memory block with handle for the INTERFACE system; for easy storage and back up of the configuration.

Programming cable

USB cable - CABLE-USB/MINI-USB-3,0M - 2986135



USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m

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