

Uninterruptible power supply - QUINT-UPS/ 1AC/ 1AC/500VA - 2320270

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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 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)	2500.0 g
Country of origin	Germany

Technical data

Dimensions

Width	125 mm
Height	130 mm
Depth	125 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 50 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (25°C, non-condensing)

Input data

Nominal input voltage	230 V AC
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Technical data

Input data

	120 V AC
Input voltage range	180 V AC ... 264 V AC
	80 V AC ... 150 V AC
	80 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	I
	> (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 5 mm horizontally, 15 mm next to active components, 50 mm vertically

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

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Technical data

Connection data, input

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 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section flexible min.	1.5 mm ²
Conductor cross section flexible max.	4 mm ²
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 mm ²
Conductor cross section solid max.	2.5 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.	10
Stripping length	8 mm
Screw thread	M4

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Connection in acc. with standard	CUL
Standards/regulations	EN 62040-2
	EN 61000-4-3
	EN 61000-4-4
	EN 62040-4
	EN 61000-4-6
Standard – Limitation of mains harmonic currents	EN 61000-3-2 (Class A)
UL approvals	UL/C-UL Recognized UL 1778
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
	15 Hz ... 150 Hz, 2.3g t _v = 90 min.

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Technical data

Standards and Regulations

Rail applications	EN 50121-4
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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	27040602
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 / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cUL Recognized / cULus Recognized


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Approvals

Approvals submitted


Approval details

UL Recognized 

cUL Recognized 

EAC

EAC 

cULus Recognized 

Accessories

Accessories

Adapter 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

Assembly adapter

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Accessories

Assembly adapters - UWA 130 - 2901664



Universal wall adapter

Assembly adapters - UWA 182/52 - 2938235



Universal wall 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

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

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Accessories

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

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

Data cable preassembled

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Accessories

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

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.

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Accessories

Drawings

Block diagram

