

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/500VA/ USB - 1067327

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QUINTUPS, IQTechnology, DIN rail mounting, USB (Modbus/RTU), input:120 VAC / 230 VAC, output:120 VAC / 230 VAC / 500 VA.



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	2,490.000 g
Custom tariff number	85322900
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Width	180 mm
Height	130 mm
Depth	125 mm
Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (>50°C: 2,5%/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 %
Installation height	≤ 3000 m (>2000m:0,6%/100m)

Input data

Input voltage	120 VAC
	230 VAC
Input voltage range	90 VAC ... 264 VAC
Nominal input voltage range	100 VAC ... 240 VAC

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Technical data

Input data

Typical national grid voltage	120 VAC
	230 VAC
Voltage type of supply voltage	AC
Frequency range (f_N)	45 Hz ... 65 Hz
Permissible backup fuse	max. 25 A
Current consumption	6.9 A (100VAC)
	2.86 A (240VAC)
	19 A (24VDC)
Current consumption, battery operation	19 A (24VDC)

Output data, general

Apparent power	500 VA
Real power	400 W
Power factor (cos phi)	0.8
Crest factor	2.8
Switch-over time	< 10 ms
UPS classification	VFD-SS-311
Connection in parallel	no
Connection in series	No
Overload capability, mains operation	in accordance with internal fuse
Overload capability, battery operation	105 % (Permanent)
	120 % ... 150 % (20 s / 5 s, then shutdown)

Output data, mains operation

Output voltage	120 VAC
	230 VAC
Nominal output current (I_N)	4.17 A (120VAC)
	2.17 A (230 V AC)
Maximum power dissipation in no-load condition	typ. 9 W (120VAC)
Power loss nominal load max.	typ. 10 W (120VAC)
Nominal output frequency	60 Hz \pm 5Hz
	50 Hz \pm 5Hz
Output fuse, current	10 A
Output fuse, voltage	400 V
Fuse	gRL

Output data, battery operation

Output voltage	120 VAC \pm 2%
	230 VAC \pm 2%
Form of output voltage	Pure sine
Maximum power dissipation in no-load condition	approx. 23 W (120VAC)

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Output data, battery operation

Power loss nominal load max.	approx. 57 W (120VAC)
Nominal output frequency	60 Hz
	50 Hz
	±5% (grid-guided)
	±0.5% (self-guided)
Total harmonic distortion factor (THD)	< 3 % (linear load)
	< 8 % (non-linear load)

Input data, energy storage

Input voltage	24 VDC
Deep discharge protection	20 VDC ... 24 VDC (can be parameterized)
Nominal capacity range	3.4 Ah ... 190 Ah (5x38Ah)
Charge current	max. 5 A
End-of-charge voltage	24 VDC ... 31 VDC (temperature compensated)

General data, energy storage

Battery technology	VRLA, VRLA-WTR, LI-ION (see section: Ordering data)
Charge characteristic curve	IU ₀ U
Permissible backup fuse	50 A

General

Net weight	2.5 kg
Efficiency	> 97 % (100 % load, with charged energy storage)
	~ 87 % (100% load)
MTBF (IEC 61709, SN 29500)	445469 h (40°C)
Degree of protection	IP20
Protection class	I

Input connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.2 mm ² ... 6 mm ²
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.2 mm ² ... 4 mm ²
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	30 ... 10
Torque	0.5 Nm ... 0.6 Nm

Output connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.2 mm ² ... 6 mm ²

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Technical data

Output connection data

Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.2 mm ² ... 4 mm ²
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	30 ... 10
Torque	0.5 Nm ... 0.6 Nm

Signal connection data

Connection method	Screw connection
Conductor cross section solid	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.2 mm ² ... 1.5 mm ²
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	30 ... 12
Torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm

Interfaces

Interface	USB (Modbus/RTU)
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Standards

Standard designation	Uninterruptible power supply systems
Standards/regulations	EN62040-1

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electrostatic discharge	EN 61000-4-2
Contact discharge	± 6 kV
Discharge in air	± 8 kV
Electromagnetic HF field	EN61000-4-3
Frequency range	80 MHz ... 6 GHz
Test field strength	10 V/m
Comments	Criterion A
Fast transients (burst)	EN61000-4-4
Input	± 2 kV
	± 2 kV
Output	± 2 kV
Signal	± 2 kV
	± 2 kV (USB)
Comments	Criterion A (B for USB)
Surge voltage load (surge)	EN61000-4-5
Signal	1 kV (asymmetrical)

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Technical data

EMC data

Comments	Criterion A
Conducted interference	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Power frequency magnetic field	EN 61000-4-8
Frequency	50 Hz
Signal	30 A/m
Comments	Criterion A
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Drawings

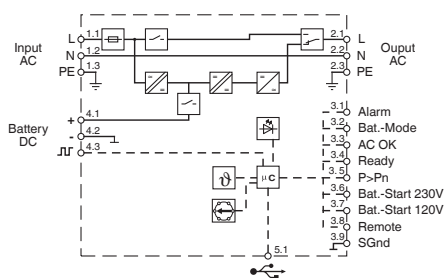
Pictogram



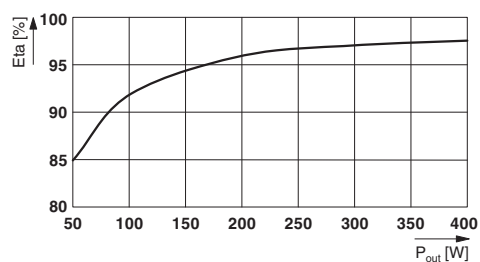
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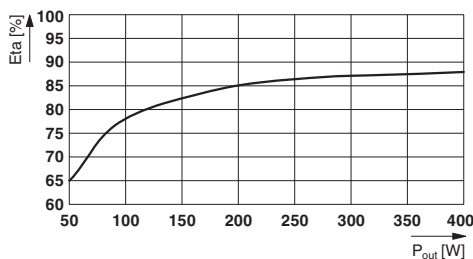
Block diagram



Diagram



Diagram



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Classifications

eCl@ss

eCl@ss 9.0	27040705
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Approvals

Approvals

Approvals

IECEE CB Scheme / cULus Recognized

Ex Approvals

Approval details

IECEE CB Scheme		http://www.iecee.org/	DK-95944-UL
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 342453
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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.

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Accessories

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

Energy storage - UPS-BAT/VRLA/24DC/20AH - 1109004



Energy storage, lead AGM, VRLA technology, 24 V DC, 20 Ah, 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

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Accessories

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-BAT/LI-ION/24DC/924WH - 2908232



Energy storage device, LI-ION technology, 24 V DC, 924 Wh, for ambient temperatures of -25 °C ... 60 °C, automatic detection and communication with QUINT UPS-IQ

Data cable preassembled

Data cable - MINI-SCREW-USB-DATACABLE - 2908217



Used for communication between an industrial PC and Phoenix Contact devices with USB-Mini-B connection.

Device protection

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Accessories

Type 3 surge protection device - PLT-SEC-T3-120-FM-UT - 2907918



Type 2/3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage 120 V AC/DC.

Type 3 surge protection device - PLT-SEC-T3-230-FM-UT - 2907919



Type 2/3 surge protection, consisting of protective plug and base element with screw connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage 230 V AC/DC.

Fuse

Fuse - FUSE 10A/400V GRL - 2908358



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