Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

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Uninterruptible power supply with IQ technology for DIN rail mounting. Input: 120/230 V AC, output: 120/230 V AC/1 kVA. Provides information regarding the state of charge, remaining runtime, and service life of the rechargeable battery module at any time, thereby increasing system availability.

Product Description

Supply AC loads reliably with the uninterruptible power supply from the QUINT range for DIN rails. Due to the online topology, the AC UPS delivers a pure sine curve in mains and battery operation. Combine the online UPS with various UPS-BAT energy storage devices. The USB interface makes it convenient to shut down your PC.

Your advantages

- Smooth transition due to online topology
- Pure sine curve in mains and battery operation
- USB interface for connecting to industrial PCs, for example
- Startup from energy storage possible, even without mains input
- Can be switched in parallel for redundancy and increased performance

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 244563
GTIN	4055626244563
Weight per Piece (excluding packing)	5,530.000 g
Custom tariff number	85371091
Country of origin	Germany

Technical data

Dimensions

Width	290 mm
Height	130 mm
Depth	125 mm

Ambient conditions

Degree of protection	IP20

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (> 50 °C Derating: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C (with charged energy storage device)
Max. permissible relative humidity (operation)	≤ 95 %
Climatic class	3K3 (EN 60721)
Degree of pollution	2
Installation height	≤ 3000 m (> 2000 m, observe derating)

Input data

Nominal input voltage	100 V AC -10 % / +20 %
	110 V AC -10 % / +20 %
	120 V AC -10 % / +20 %
	130 V AC -10 % / +20 %
	200 V AC -20 % / +20 %
	210 V AC -20 % / +20 %
	220 V AC -20 % / +20 %
	230 V AC -20 % / +15 %
	240 V AC -20 % / +10 %
Input voltage range	90 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)	0.9

Output data

Nominal output voltage	100 V AC
	110 V AC
	120 V AC
	130 V AC
	200 V AC
	210 V AC
	220 V AC
	230 V AC
	240 V AC
Nominal output current (I_N)	7.8 A (100 V AC)
	8.1 A (110 V AC)
	8.3 A (120 V AC)
	7.7 A (130 V AC)
	5 A (200 V AC)
	4.8 A (210 V AC)
	4.5 A (220 V AC)
	4.3 A (230 V AC)
	4.2 A (240 V AC)

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

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Output data

POWER BOOST (I_{Boost})	13 A (120 V AC)
	7 A (230 V AC)
Derating	> 50 °C ... 60 °C (2.5%/K)
Connection in parallel	Yes, 2
Connection in series	No
Maximum power dissipation in no-load condition	typ. 17 W (120 V AC)
	typ. 25 W (230 V AC)

General

Net weight	5 kg
Efficiency	> 92 % (120 V AC)
	> 94 % (230 V AC)
Protection class	I
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	217546 h (230 V AC, at 40 °C)

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
Conductor cross section AWG min.	30
Conductor cross section AWG max.	10
Stripping length	8 mm

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
Conductor cross section AWG min.	30
Conductor cross section AWG max.	10
Stripping length	8 mm

Connection data for signaling

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	30

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

Technical data

Connection data for signaling

Conductor cross section AWG max.	12
Stripping length	8 mm

Conformance/approvals

UL approvals	UL/C-UL Recognized UL 1778

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 (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Electromagnetic HF field	EN 61000-4-3
Frequency range	80 MHz ... 6 GHz
Test field strength	10 V/m
Comments	Criterion A
Fast transients (burst)	EN 61000-4-4
Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A (B for USB)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion A
Conducted interference	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V
Comments	Criterion A
Frequency	50 Hz
	60 Hz
Test field strength	100 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.

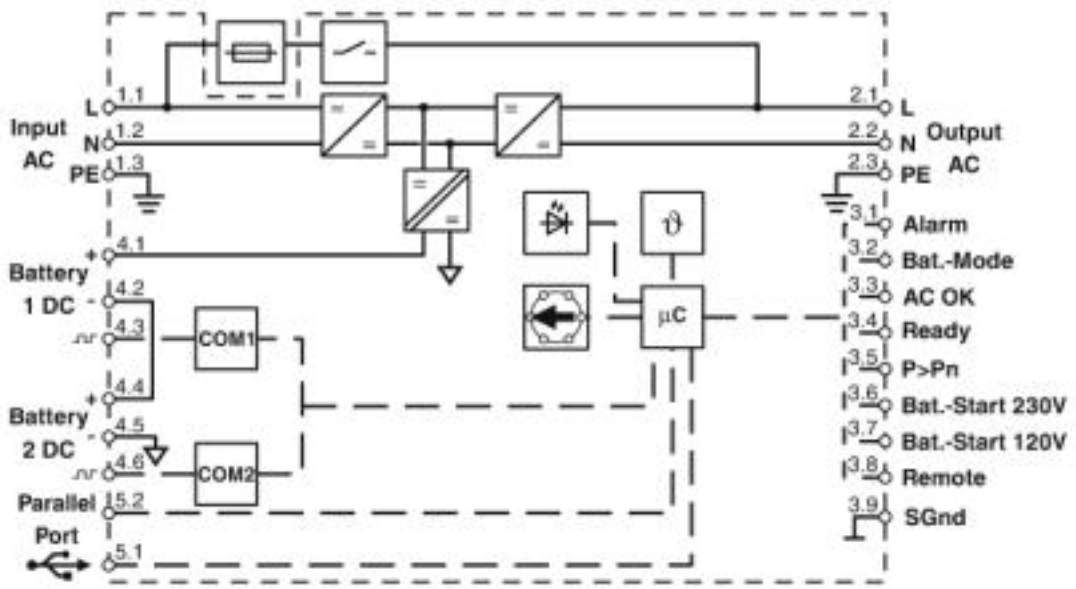
Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

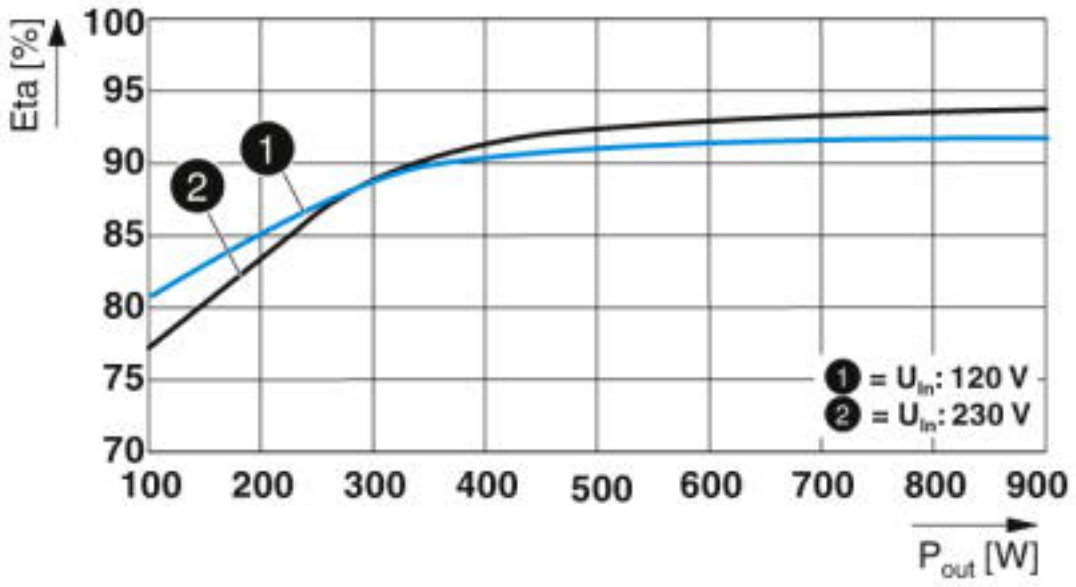
Drawings

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

Block diagram



Diagram



Classifications

eCl@ss

eCl@ss 5.1	27040603
eCl@ss 6.0	27040600
eCl@ss 7.0	27040602
eCl@ss 8.0	27040602
eCl@ss 9.0	27040705

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

Classifications

ETIM

ETIM 5.0	EC000382
ETIM 6.0	EC000382
ETIM 7.0	EC000382

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / IECEE CB Scheme / EAC / cULus Recognized

Ex Approvals

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
IECEE CB Scheme		http://www.iecee.org/	DK-70737-UL
EAC			RU C-DE.A*30.B.01082
cULus Recognized			

Accessories

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Assembly adapter

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

Accessories

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.

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/38AH - 2320335

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

Uninterruptible power supply - QUINT4-UPS/1AC/1AC/1KVA - 2320283

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.

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Accessories

Patch cable - VS-IP20/10G-IP20/10G-94F/1 - 1418866

Patch cable, CAT6$_A$, 4-pair, shielded, connection not crossed (Line), assembled at both ends with RJ45/IP20 connectors; outer sheath material: PUR; length: 1.0 m

Fuse

Fuse - FUSE 25A/58V TAC ATO - 1021340

Fuse, nominal current: 25 A,