

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



1067327

<https://www.phoenixcontact.com/in/products/1067327>

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QUINT AC-USV, IQ Technology, DIN rail mounting, input: 120 V AC / 230 V AC, output: 120 V AC / 230 V AC / 500 VA.

Commercial Data

Item number	1067327
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMU
Product Key	CMUI15
GTIN	4055626736082
Weight per Piece (including packing)	3,062 g
Weight per Piece (excluding packing)	2,724 g
Customs tariff number	85371091
Country of origin	DE

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Technical Data

Input data

Input voltage	120 V AC
	230 V AC
Input voltage range	90 V AC ... 264 V AC
Nominal input voltage range	100 V AC ... 240 V AC
Typical national grid voltage	120 V AC
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 (100 V AC)
	2.86 A (240 V AC)
	19 A (24 V DC)

Signal Bat.-Start

Connection labeling	3.6, 3.7
Signalization designation	Bat.-Start
Low signal	Connection to SGnd with $< 2.7 \text{ k}\Omega$
High signal	Open ($> 200 \text{ k}\Omega$ between Bat.-Start and SGnd)

Signal Remote

Connection labeling	3.8
Signalization designation	Remote
Low signal	Connection to SGnd with $< 2.7 \text{ k}\Omega$
High signal	Open ($> 35 \text{ k}\Omega$ between Remote and SGnd)

Output data

Efficiency	$> 97 \%$ (100 % load, with charged energy storage)
	$\sim 87 \%$ (100 % load)
Apparent power	500 VA
Real power	400 W
Power factor (cos phi)	0.8
Crest factor	2.8
Switch-over time	$< 10 \text{ ms}$
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)

Mains operation

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Output voltage	120 V AC
	230 V AC
Nominal output current (I_N)	4.17 A (120 V AC)
	2.17 A (230 V AC)
Maximum no-load power dissipation	typ. 9 W (120 V AC)
	typ. 10 W (230 V AC)
Power loss nominal load max.	typ. 10 W (120 V AC)
	typ. 11 W (230 V AC)
Nominal output frequency	60 Hz \pm 5 Hz
	50 Hz \pm 5 Hz
Output fuse	10 A 400 V gRL

Battery operation

Output voltage	120 V AC \pm 2 %
	230 V AC \pm 2 %
Form of output voltage	Pure sine
Maximum no-load power dissipation	approx. 23 W (120 V AC)
	approx. 24 W (230 V AC)
Power loss nominal load max.	approx. 57 W (120 V AC)
	approx. 54 W (230 V AC)
Nominal output frequency	60 Hz
	50 Hz
	\pm 5 % (grid-guided)
	\pm 0.5 % (self-guided)
Total harmonic distortion factor (THD)	< 3 % (linear load)
	< 8 % (non-linear load)
Electronic current limitation	> 2,5 x I_N (> 200 ms)

Signal AC OK

Connection labeling	3.3
Signalization designation	AC OK
Type of signaling	Green LED
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	\leq 20 mA
LED status indicator	green

Signal Alarm

Connection labeling	3.1
Signalization designation	Alarm
Type of signaling	LED red
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	\leq 20 mA

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LED status indicator	red
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Signal Battery mode

Connection labeling	3.2
Signalization designation	Battery mode
Type of signaling	Yellow LED
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA
LED status indicator	yellow

Signal P>P_n

Connection labeling	3.5
Signalization designation	P>P _n
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA

Signal Ready

Connection labeling	3.4
Signalization designation	Ready
Type of signaling	Green LED
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA
LED status indicator	green

Signal ground SGnd

Connection labeling	3.9
Function	Signal ground
Reference potential	For signal inputs and signal outputs

Energy storage

Input voltage	24 V DC
End-of-charge voltage	24 V DC ... 31 V DC (temperature compensated)
Charging current	max. 5 A
Nominal capacity range	3.4 Ah ... 200 Ah (5x 40 Ah)
Deep discharge protection	20 V DC ... 24 V DC (can be parameterized)
Battery technology	VRLA, VRLA-WTR, LI-ION (see section: Ordering data)
Charge characteristic curve	IU ₀ U

Interfaces

Interface	USB (Modbus/RTU)
Number of interfaces	1
Connection method	MINI-USB Type B

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Connection marking	5.1
Locking	Screw
Transmission physics	USB 2.0
Maximum cable length	3 m
Electrical isolation	yes

Electrical properties

Number of phases	1.00
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Product properties

Product type	AC UPS
Product family	QUINT AC-USV
MTBF (IEC 61709, SN 29500)	445469 h (40 °C)

Insulation characteristics

Protection class	I
Overvoltage category	II
Pollution degree	3 (≤ 130 V AC) 2 (> 200 V AC)

Dimensions

Width	180 mm
Height	130 mm
Depth	125 mm

Installation dimensions

Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm

Mounting

Mounting type	DIN rail mounting
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Material specifications

Housing material	Metal
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Environmental and real-life conditions

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
Maximum altitude	≤ 3000 m (> 2000 m: 0,6 % / 100 m)
Max. permissible relative humidity (operation)	≤ 95 %
Shock	20g in all directions (EN 60068-2-27)
Vibration (operation)	5 Hz ... 100 Hz, 0.7g (EN 60068-2-6)

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Standards and regulations

Uninterruptible power supply systems

Standards/specifications	EN 62040-1
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Approvals

UL

Identification	UL/C-UL Recognized UL 1778
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EMC data

Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Interference emission	Noise emission in accordance with EN 62040-2
Noise immunity	Immunity in accordance with EN 62040-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conducted noise emission	EN 62040-02 (Class C2)

Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV
Comments	Criterion A

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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Electromagnetic HF field

Frequency range	80 MHz ... 6 GHz
Test field strength	10 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4
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Fast transients (burst)

Input	± 2 kV
	± 2 kV
Output	± 2 kV
Signal	± 2 kV
	± 2 kV (USB)
Comments	Criterion A (B for USB)

Surge voltage load (surge)

Standards/regulations	EN 61000-4-5
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Signal	1 kV (asymmetrical)
Comments	Criterion A
Input/Output	± 1 kV (symmetrical)
	± 2 kV (asymmetrical)

Conducted interference

Standards/regulations	EN 61000-4-6
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Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Signal	1 kV (asymmetrical)
Comments	Criterion A

Power frequency magnetic field

Standards/regulations	EN 61000-4-8
Frequency	50 Hz
Signal	30 A/m
Comments	Criterion A

Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

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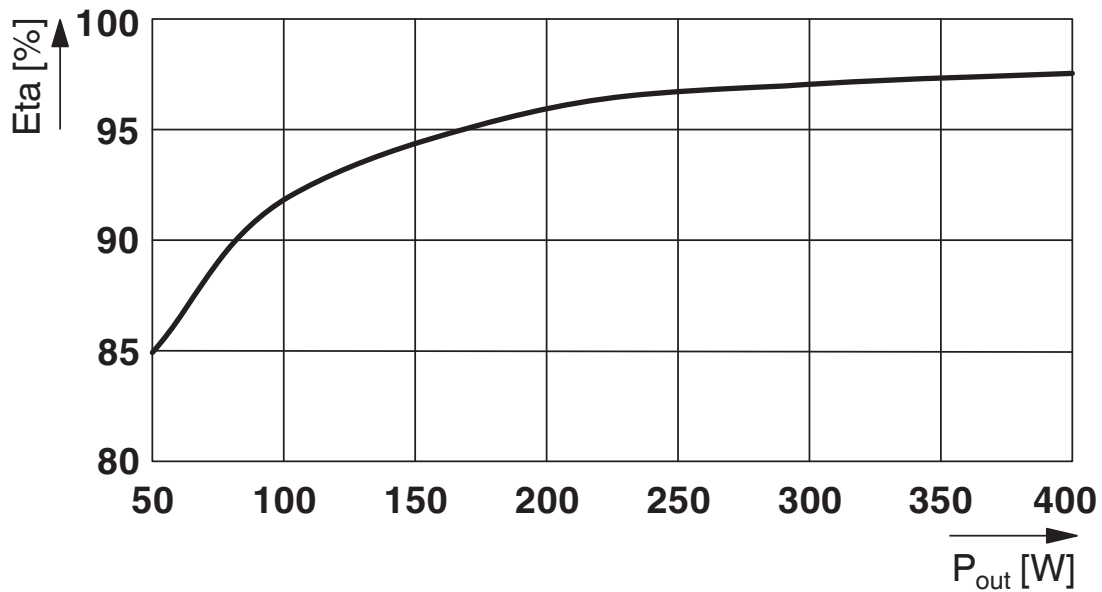


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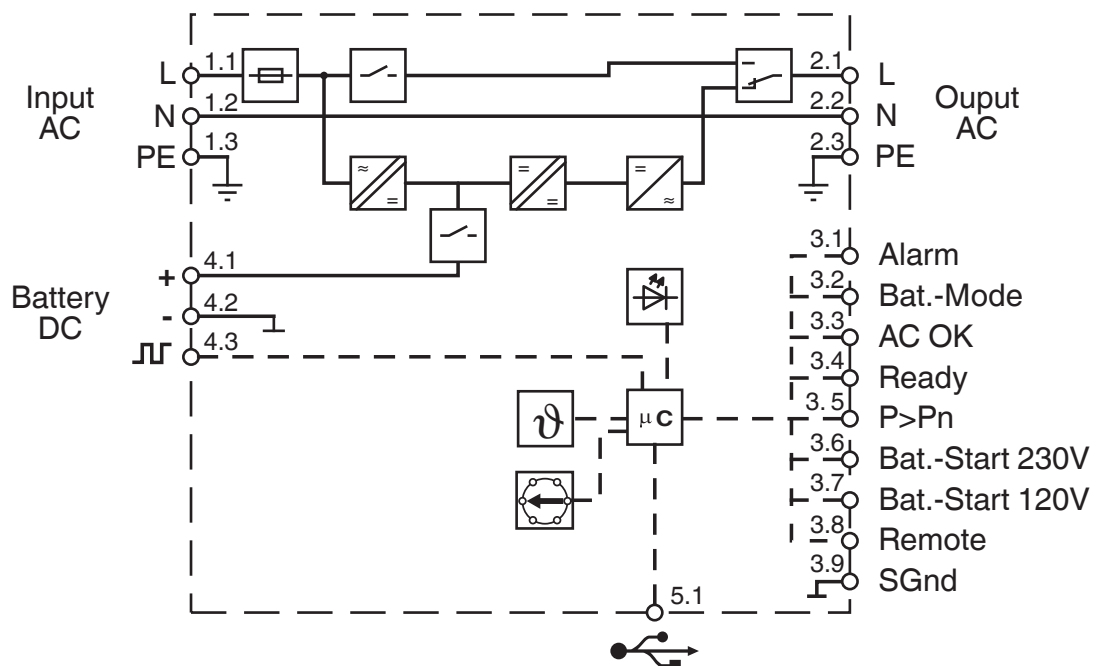
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Drawings

Diagram



Block diagram



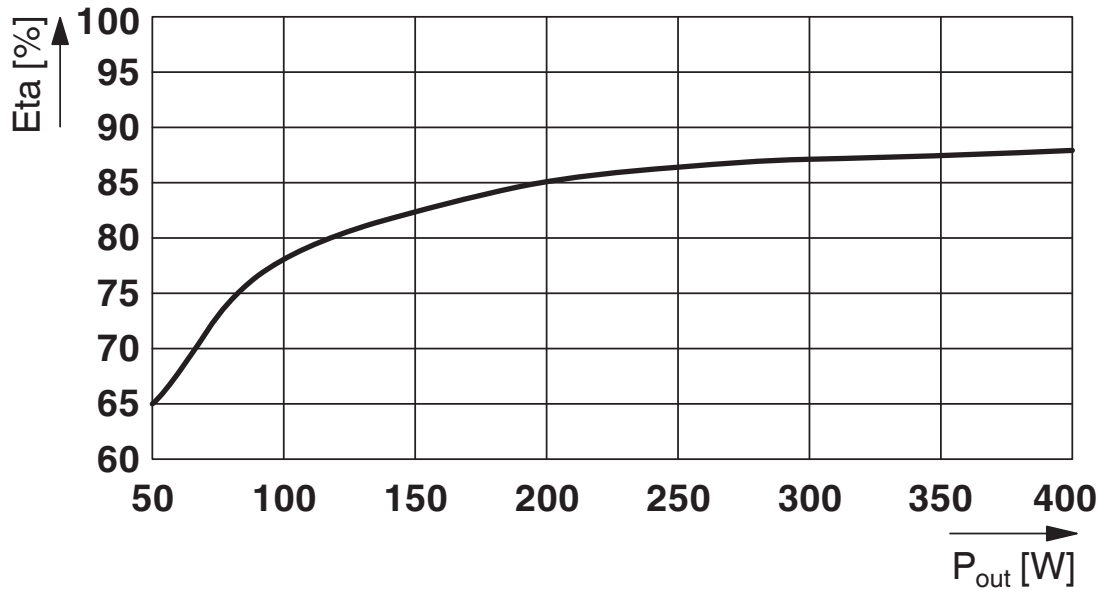
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Diagram



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Approvals



IECEE CB Scheme

Approval ID: DK-95944-UL



cULus Recognized

Approval ID: FILE E 342453



EAC

Approval ID: RU-DE.B.00184/20



UL Recognized

Approval ID: FILE E 359066



cUL Recognized

Approval ID: FILE E 359066

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Classifications

ECLASS

ECLASS-11.0	27040705
ECLASS-12.0	27040705
ECLASS-13.0	27040705

ETIM

ETIM 8.0	EC000382
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UNSPSC

UNSPSC 21.0	39121000
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

UPS-BAT/PB/24DC/4AH - Energy storage

1274117

<https://www.phoenixcontact.com/in/products/1274117>



Energy storage, VRLA-AGM, 24 V DC, 4 Ah, automatic detection and communication with QUINT UPS-IQ

UPS-BAT/PB/24DC/7AH - Energy storage

1274118

<https://www.phoenixcontact.com/in/products/1274118>



Energy storage, VRLA-AGM, 24 V DC, 7 Ah, automatic detection and communication with QUINT UPS-IQ

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UPS-BAT/PB/24DC/12AH - Energy storage

1274119

<https://www.phoenixcontact.com/in/products/1274119>



Energy storage, VRLA-AGM, 24 V DC, 12 Ah, automatic detection and communication with QUINT UPS-IQ

MINI-SCREW-USB-DATACABLE - Data cable

2908217

<https://www.phoenixcontact.com/in/products/2908217>



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

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FUSE 10A/400V GRL - Fuse

2908358

<https://www.phoenixcontact.com/in/products/2908358>



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

UWA 130 - Mounting adapter

2901664

<https://www.phoenixcontact.com/in/products/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.

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UWA 182/52 - Mounting adapter

2938235

<https://www.phoenixcontact.com/in/products/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.

UPS-BAT/PB/24DC/20AH - Energy storage

1348516

<https://www.phoenixcontact.com/in/products/1348516>



Energy storage, VRLA-AGM, 24 V DC, 20 Ah, automatic detection and communication with QUINT UPS-IQ

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UPS-BAT/PB/24DC/40AH - Energy storage

1354641

<https://www.phoenixcontact.com/in/products/1354641>



Energy storage, VRLA-AGM, 24 V DC, 40 Ah, automatic detection and communication with QUINT UPS-IQ

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

2320416

<https://www.phoenixcontact.com/in/products/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

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

2320429

<https://www.phoenixcontact.com/in/products/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

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

2320351

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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

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UPS-BAT/LI-ION/24DC/924WH - Energy storage

2908232

<https://www.phoenixcontact.com/in/products/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

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

2907918

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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

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

2907919

<https://www.phoenixcontact.com/in/products/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

POWER MANAGEMENT SUITE - Configuration software

1252232

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Configuration and management software



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