

# QUINT-HP-UPS/230AC/1.5KVA/PT - Uninterruptible power supply



1136811

<https://www.phoenixcontact.com/gb/products/1136811>

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QUINT AC-USV, IQ Technology, Wall mounting, input: 230 V AC, output: 230 V AC / 1500 VA.

## Commercial data

Item number	1136811
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMUW15
Product key	CMUW15
GTIN	4063151073435
Weight per piece (including packing)	4,800 g
Weight per piece (excluding packing)	4,300 g
Customs tariff number	85371091
Country of origin	DE

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## Technical data

### Input data

Input voltage	200 V AC -10 % / +20 %
	210 V AC -15 % / +20 %
	220 V AC -15 % / +20 %
	230 V AC -20 % / +15 %
	240 V AC -20 % / +10 %
Voltage type of supply voltage	AC
Frequency range ( $f_N$ )	47.5 Hz ... 52.5 Hz
Bypass fuse	16 A T 250 V
Permissible backup fuse	B16 B25 C16 C25
Current consumption	nom. 9.5 A (200 V AC)
	nom. 9.1 A (210 V AC)
	nom. 8.6 A (220 V AC)
	nom. 8.3 A (230 V AC)
	nom. 7.9 A (240 V AC)
	max. 12.9 A (200 V AC)
	max. 13 A (210 V AC)
	max. 12.4 A (220 V AC)
max. 12.6 A (230 V AC)	
max. 12.1 A (240 V AC)	
Rated short-time current carrying capacity $I_{cw}$	6 kA

### Output data

Classification according to IEC 62040-3	VFI-SS-111
Efficiency	> 95 % (100% load, battery charged)
	> 91 % (100% load, battery charged)
Apparent power	1500 VA
Real power	1350 W
Power factor (cos phi)	0.9
Crest factor	2.8
Switch-over time	0 ms
Connection in parallel	yes
	max. 3
Connection in series	No
Overload capability Mains operation	120 % ... 150 % (20 s / 5 s, then switch to bypass operation)
Overload capability Battery operation	120 % ... 150 % (20 s / 5 s, then shutdown)
Overload capability Bypass mode	120 % ... 150 % (for a sustained period / 20 s, then shutdown)
Rated short-time current carrying capacity $I_{cw}$	6 kA

### Mains operation

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Output voltage	200 V AC $\pm 2$ %
	210 V AC $\pm 2$ %
	220 V AC $\pm 2$ %
	230 V AC $\pm 2$ %
	240 V AC $\pm 2$ %
Form of output voltage	Pure sine
Output current	nom. 7.5 A (200 V AC)
	nom. 7.1 A (210 V AC)
	nom. 6.8 A (220 V AC)
	nom. 6.5 A (230 V AC)
Static Boost ( $I_{Stat.Boost}$ )	nom. 6.3 A (240 V AC)
Maximum no-load power dissipation	35 W
Power loss nominal load max.	< 60 W (100% load, battery charged)
Nominal output frequency	50 Hz
	60 Hz
	$\pm 0.5$ % (Output frequency tolerance)
Electronic current limitation	> 2,5 x Output: Current nom. (> 200 ms)

## Battery operation

Maximum no-load power dissipation	32 W
Power loss nominal load max.	130 W (100% load, battery charged)
Nominal output frequency	50 Hz
	60 Hz
	$\pm 0.5$ % (Output frequency tolerance)
Total harmonic distortion factor (THD)	< 3 % (linear load)
	< 8 % (non-linear load)
Electronic current limitation	> 2,5 x Output: Current nom. (> 200 ms)

## Energy storage

### Input

Input voltage	48 V DC
	max. 60 V DC
Input current	max. 40 A
Nominal capacity range	7 Ah ... 200 Ah
Charging current	max. 7 A

### Output

Short-circuit current	650 A (< 1,5 ms)
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### General

Connection in parallel	yes
	max. 5
Connection in series	No

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IQ-Technology	yes
Permissible backup fuse	40 A
Temperature sensor	yes
Permissible backup fuse	40 A

## Connection data

### Input

Position	1.x
Identification	1.1 (L), 1.2 (N)

### Connection technology

Position marking	1.1 (L), 1.2 (N)
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### Conductor connection

Connection method	Push-in connection
rigid	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
rigid (AWG)	16 ... 10
Stripping length	10 mm
Position	1.x
Identification	1.3 (⊕ IEC 60914)

### Connection technology

Position marking	1.3 (⊕ IEC 60914)
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### Conductor connection

Connection method	Push-in connection
rigid	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	2.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	2.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
rigid (AWG)	14 ... 10
Stripping length	10 mm

### Output

Position	2.x
Identification	2.1 (L), 2.2 (L'), 2.3 (N), 2.4 (⊕ IEC 60914)

### Connection technology

Position marking	2.1 (L), 2.2 (L'), 2.3 (N), 2.4 (⊕ IEC 60914)
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### Conductor connection

Connection method	Push-in connection
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rigid	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
rigid (AWG)	16 ... 10
Stripping length	10 mm

## Battery

Position	4.x
Identification	4.1, 4.2

## Connection technology

Position marking	4.1 (+), 4.2 (-)
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## Conductor connection

Connection method	Push-in connection
rigid	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
flexible	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
rigid (AWG)	8 ... 6
Stripping length	18 mm

## Signal

Position	3.x
Identification	3.1 ... 3.9

## Connection technology

Position marking	3.1 (Alarm), 3.2 (Bat.-Mode), 3.3 (Power Good), 3.4 (Ready), 3.5 (P>Pn), 3.6 (Service Required), 3.7 (Bat.-Start), 3.8 (Remote), 3.9 (SGnd)
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## Conductor connection

Connection method	Push-in connection
rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
rigid (AWG)	24 ... 12
Stripping length	10 mm

## Interfaces

Interface	Battery module communication interface
Number of interfaces	1
Connection method	RJ45
Position	5.x

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Locking	Locking clip
Transmission physics	Twisted-Pair 4x2
Interface	Parallel operation communication interface
Number of interfaces	2
Connection method	RJ45
Position	5.x
Locking	Locking clip
Transmission physics	Twisted-Pair 4x2

## Signaling

### Signal input Bat.-Start

Low signal	Connection to SGnd with < 2.7 kΩ
High signal	Open (> 200 kΩ between Bat.-Start and SGnd)

### Signal input Remote

Low signal	Connection to SGnd with < 2.7 kΩ
High signal	Open (> 35 kΩ between Remote and SGnd)

### Signal output Alarm

Position	3.x
Signalization designation	Alarm
Position marking	3.1 (Alarm)
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA

### Signal output Battery Mode

Position	3.x
Signalization designation	Bat.-Mode
Position marking	3.2 (Bat.-Mode)
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA

### Signal output Power Good

Position	3.x
Signalization designation	Power Good
Position marking	3.3 (Power Good)
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA

### Signal output Ready

Position	3.x
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Signalization designation	Ready
Position marking	3.4 (Ready)
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA

## Signal output P > P<sub>N</sub>

Position	3.x
Signalization designation	P>P <sub>n</sub>
Position marking	3.5 (P>P <sub>n</sub> )
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA

## Signal output Service Required

Position	3.x
Signalization designation	Service Required
Position marking	3.6 (Service Required)
Switching output	Transistor output, active
Output voltage	24 V
Continuous load current	≤ 20 mA

## Signal ground SGnd

Function	Signal ground
Reference potential	For signal inputs and signal outputs

## Product properties

Product type	AC UPS
Product family	QUINT AC-USV

## Insulation characteristics

Protection class	I
Overvoltage category	II
Pollution degree	2

## Dimensions

### Item dimensions

Width	150 mm
Height	240 mm
Depth	143 mm

### Drill hole

Diameter	5.5 mm
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### Installation dimensions

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

## Mounting

Mounting type	Wall mounting
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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	≤ 4000 m (> 1000 m: 3 % / 1000 m)
Max. permissible relative humidity (operation)	≤ 95 %
Shock	30g in each direction, according to IEC 60068-2-27
Vibration (operation)	5 Hz ... 100 Hz, 0.7g (EN 60068-2-6)

## Standards and regulations

### Uninterruptible power supply systems

Standard designation	Uninterruptible power supply systems
Standards/specifications	EN 62040-1

## EMC data

Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Interference emission	Noise emission
Noise immunity	Immunity
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



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## 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 (Communication parallel operation, battery module)
Comments	Criterion A

## Surge voltage load (surge)

Standards/regulations	EN 61000-4-5
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## Surge voltage load (surge)

Signal	1 kV (asymmetrical)
Comments	Criterion B
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	10 V (asymmetrical)
Comments	Criterion A

## Power frequency magnetic field

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

## Harmonic and interharmonic components

Standards/regulations	EN 61000-4-13
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## Harmonic and interharmonic components

Comments	Criterion A
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## 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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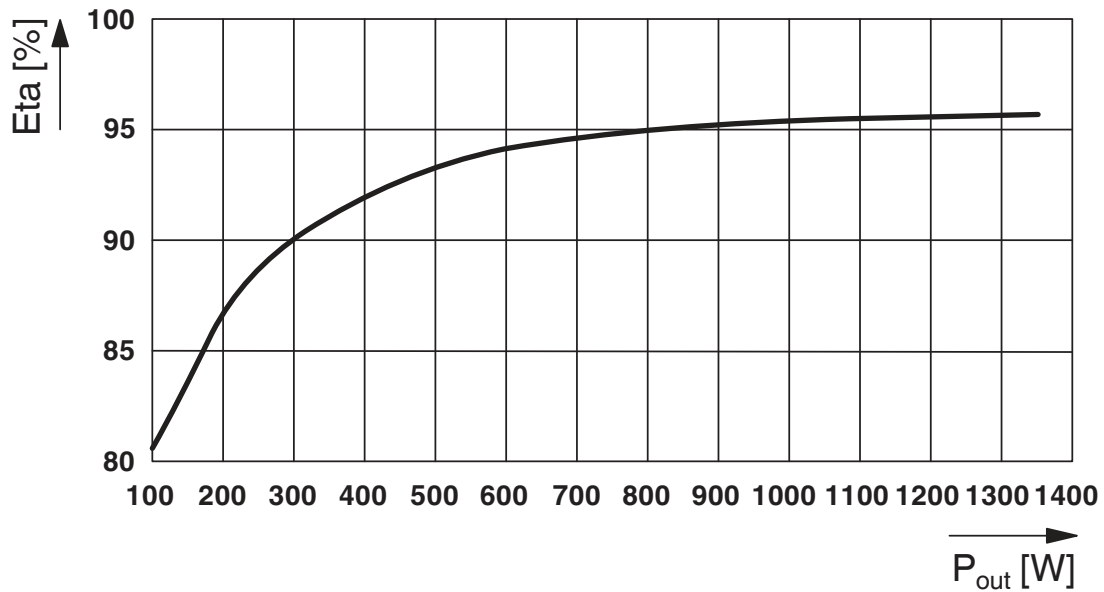


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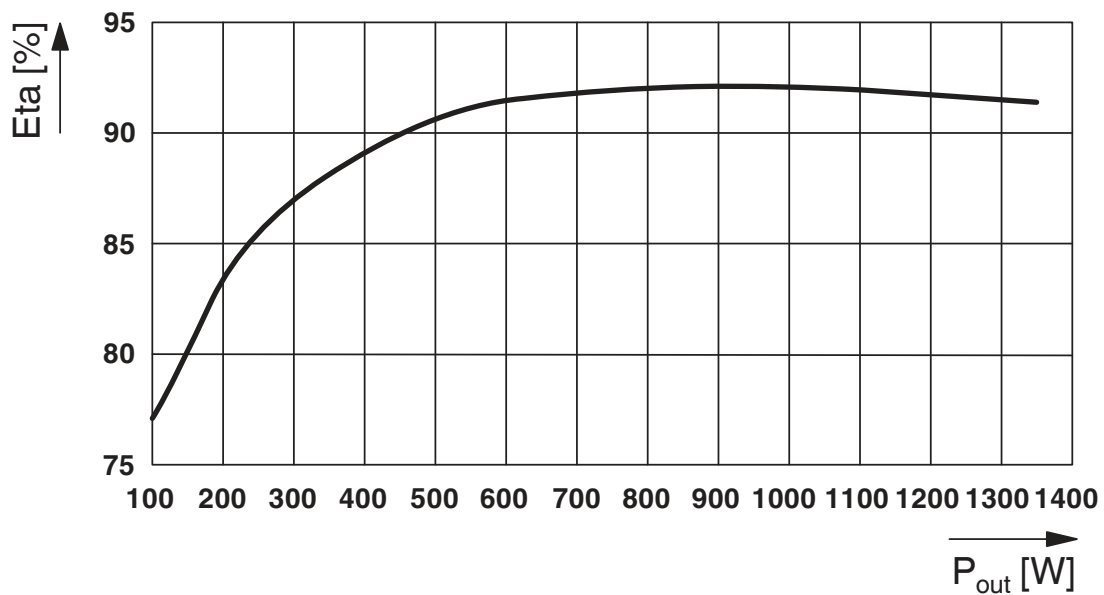
## Drawings

Diagram



Efficiency (normal operation)

Diagram



Efficiency (battery operation)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1136811>



**IECEE CB Scheme**  
Approval ID: DK-140979-UL



**IECEE CB Scheme**  
Approval ID: DK-144719-UL



**cULus Listed**  
Approval ID: E342453-20230513

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## Classifications

### ECLASS

ECLASS-13.0	27040705
ECLASS-11.0	27040705

### ETIM

ETIM 8.0	EC000382
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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## Accessories

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

2907919

<https://www.phoenixcontact.com/gb/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

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### QUINT-HP-BAT/PB/48DC/7.0AH/PT - Battery module

1133819

<https://www.phoenixcontact.com/gb/products/1133819>



Battery module, VRLA-AGM, 48 V DC, 7 Ah

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## QUINT-HP-COM/USB-SER - Interface card

1252055

<https://www.phoenixcontact.com/gb/products/1252055>

USB/RS-232/RS-485 interface card for QUINT-HP-AC UPS



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## QUINT-HP-FAN - Fan

1252068

<https://www.phoenixcontact.com/gb/products/1252068>

Replaceable fan module for QUINT-HP-AC UPS



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