

# QUINT-HP-UPS/120AC/2.5KVA/PT - Uninterruptible power supply



1136813

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QUINT AC UPS, IQ Technology, Panel mounting, input: 120 V AC, output: 120 V AC / 2500 VA.  
At least 2x 1133819 are required for operation.

## Product description

The QUINT HP UPS for panel mounting, with IQ Technology and matching external battery module, ensures superior system availability. The online topology with a pure sine wave reliably supplies your AC loads with a perfect voltage at powers ranging from 1.5 kVA to 2.5 kVA.

## Your advantages

- Pure sine wave in normal and battery operation
- Can be switched in parallel for increased performance, redundancy, or for a 3 AC system
- Startup from the energy storage system possible, even without mains input
- Communication platform: Com.board with USB or serial interface
- Compact design with active cooling

## Commercial data

Item number	1136813
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMUW15
Product key	CMUW15
GTIN	4063151073237
Weight per piece (including packing)	6,122 g
Weight per piece (excluding packing)	5,700 g
Customs tariff number	85371091
Country of origin	Country of origin will be provided upon delivery.

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## Technical data

### Notes

#### General

Note on the battery	<p>For proper operation of the UPS, at least 2 QUINT-HP-BAT/PB/48DC/7.0AH/PT (1133819) battery modules are required.</p> <p>For longer buffer times, multiples of 2 battery modules must always be connected to the UPS (2, 4, 6, 8, or 10). A maximum of 10 batteries can be connected to a single UPS.</p>
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### Input data

Input voltage	100 V AC -10 % / +20 %
	110 V AC -10 % / +20 %
	120 V AC -10 % / +15 %
	130 V AC -15 % / +10 %
Voltage type of supply voltage	AC
Frequency range ( $f_N$ )	47.5 Hz ... 52.5 Hz
	57 Hz ... 63 Hz
Bypass fuse	40 A T 250 V
Permissible backup fuse	40 A (Listed breaker)
Current consumption	nom. 24 A (100 V AC)
	nom. 23.3 A (110 V AC)
	nom. 24 A (120 V AC)
	nom. 23.4 A (130 V AC)
	max. 34.4 A (100 V AC)
	max. 31.2 A (110 V AC)
	max. 35.4 A (120 V AC)
max. 34.6 A (130 V AC)	
Rated short-time current carrying capacity $I_{cw}$	6 kA

### Output data

Classification according to IEC 62040-3	VFI-SS-111
Efficiency	> 94 % (100% load, battery charged)
	> 90 % (100% load, battery charged)
Apparent power	2500 VA
Real power	2250 W
Power factor (cos phi)	0.9
Crest factor	2.5
Switch-over time	0 ms
Connection in parallel	yes
	max. 3
Connection in series	no

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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 <sub>cw</sub>	6 kA

## Mains operation

Output voltage	100 V AC ±2 %
	110 V AC ±2 %
	120 V AC ±2 %
	130 V AC ±2 %
Form of output voltage	Pure sine
Output current	nom. 20 A (100 V AC)
	nom. 18.2 A (110 V AC)
	nom. 20.8 A (120 V AC)
	nom. 19.2 A (130 V AC)
Maximum no-load power dissipation	9 W
Power loss nominal load max.	< 120 W (100% load, battery charged)
Nominal output frequency	50 Hz
	60 Hz
	±0.5 % (Output frequency tolerance)
Electronic current limitation	> 2 x Output: Current nom. (> 200 ms)

## Battery operation

Maximum no-load power dissipation	9 W
Power loss nominal load max.	250 W (100% load, battery charged)
Nominal output frequency	50 Hz
	60 Hz
	±0.5 % (Output frequency tolerance)
Total harmonic distortion factor (THD)	< 3 % (linear load)
	< 8 % (non-linear load)
Electronic current limitation	> 2 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. 10 A

### Output

Short-circuit current	650 A (< 1,5 ms)
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Connection in parallel	yes
	max. 5 (per battery string)
Connection in series	no
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), 1.3 (⊕

### Connection technology

Position marking	1.1 (L), 1.2 (N), 1.3 (⊕
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### Conductor connection

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

### Output

Position	2.x
Identification	2.1 (L), 2.2 (N), 2.3 (⊕

### Connection technology

Position marking	2.1 (L), 2.2 (N), 2.3 (⊕
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### Conductor connection

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

### Output

Position	2.x
Identification	2.4 (L'), 2.5 (N), 2.6 (⊕



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## Connection technology

Position marking	2.4 (L'), 2.5 (N), 2.6 (⊕  
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## Conductor connection

Connection method	Push-in connection
rigid	4 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible	4 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	4 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	4 mm <sup>2</sup>
AWG	10 (Cu)
Stripping length	15 mm (Rigid/flexible/ferrule)

## Battery

Position	4.x
Identification	4.1, 4.2; 4.3, 4.4

## Connection technology

Position marking	4.1 (+), 4.2 (-), 4.3 (+), 4.4 (-)
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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>
AWG	8 ... 6 (Cu)
Stripping length	18 mm (Rigid/flexible/ferrule)

## 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>
AWG	24 ... 12 (Cu)
Stripping length	10 mm (Rigid/flexible/ferrule)

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## Communication

Position	5.x
Identification	5.1 ... 5.3

## Connection technology

Position marking	5.1 (LIN), 5.2 (Parallel Port), 5.3 (Parallel Port)
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## Conductor connection

Connection method	RJ45
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## Interfaces

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

Signalization designation	Bat.-Start
Position	3.x
Position marking	3.7 (Bat.-Start)
Low signal	Connection to SGnd with < 2.7 kΩ
High signal	Open (> 200 kΩ between Bat.-Start and SGnd)

### Signal input Remote

Signalization designation	Remote
Position	3.x
Position marking	3.8 (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

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

## Signal output $P > P_N$

Position	3.x
Signalization designation	$P > P_n$
Position marking	3.5 ( $P > P_n$ )
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
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Reference potential	For signal inputs and signal outputs
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## Product properties

Product family	QUINT AC UPS
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### Insulation characteristics

Protection class	I
Overvoltage category	II
Pollution degree	3

## Dimensions

### Item dimensions

Width	188 mm
Height	240 mm
Depth	143 mm

### Drill hole

Diameter	5.5 mm
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### Installation dimensions

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

## Mounting

Mounting type	Panel 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
	EN 62040-2

## Approvals

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## UL

Identification	UL/C-UL Recognized UL 1778
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Interference emission	Noise emission
Noise immunity	Immunity

### 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 (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 A
Input/Output	± 1 kV (symmetrical)
	± 2 kV (asymmetrical)

### Conducted interference

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Standards/regulations	EN 61000-4-6
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	60 Hz
Signal	30 A/m
Comments	Criterion A
Harmonic and interharmonic components	
Standards/regulations	EN 61000-4-13
Harmonic and interharmonic components	
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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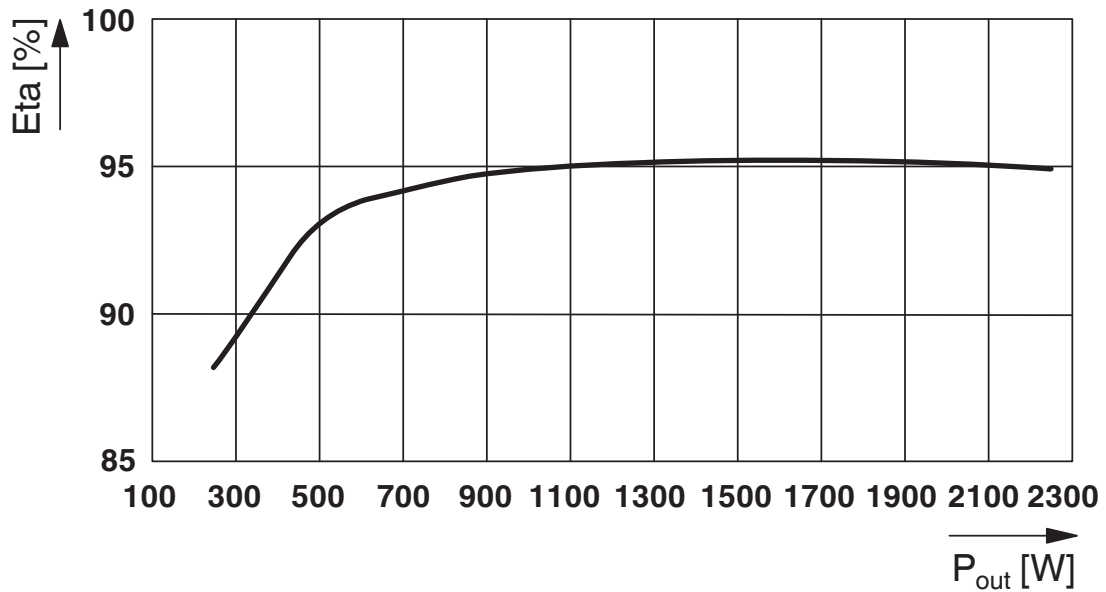


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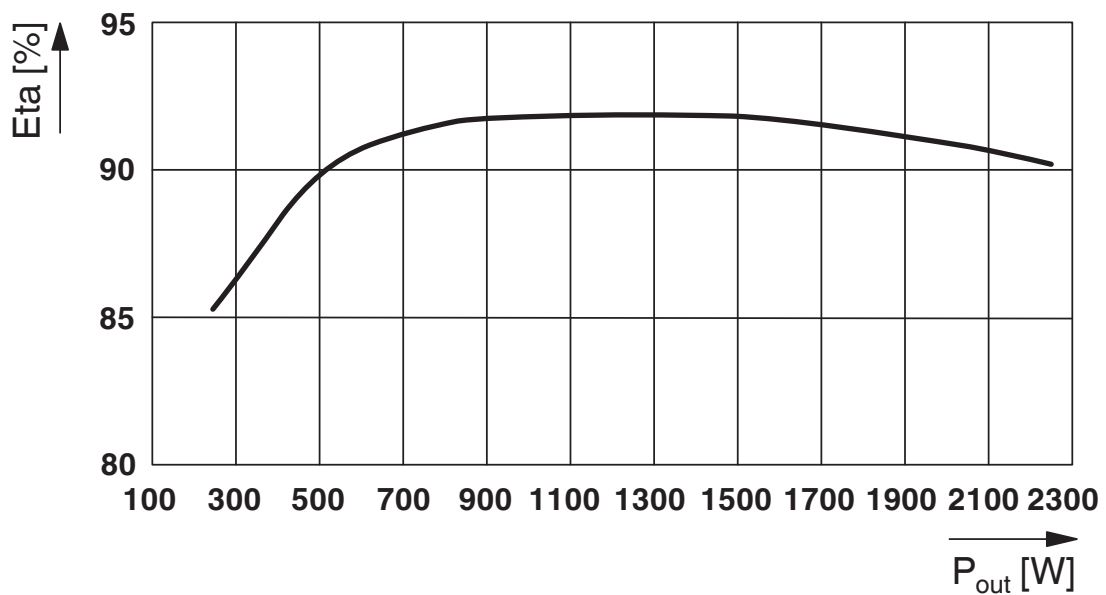
## Drawings

Diagram



Efficiency (normal operation)

Diagram



Efficiency (battery operation)

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Graphic

Load Current	Buffertime																													
	Minutes										Hours																			
	1	2	3	5	7	8	9	10	15	20	30	40	45	50	1	2	3	4	5	6	8	9	10							
250 W																														
500 W																														
1000 W																														
1250 W																														
1500 W																														
1750 W																														
2000 W																														
2250 W																														

The data is based on an ambient temperature of +25 °C at the start of use.

- 2x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 4x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 6x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 8x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 10x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT

QUINT HP UPS 2.5 kVA buffer times

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## Approvals

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**cULus Recognized**

Approval ID: E342453-20230825



**cUL Recognized**

Approval ID: E359066-20230901



**UL Recognized**

Approval ID: E359066-20230901

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## Classifications

### ECLASS

ECLASS-13.0	27040705
ECLASS-15.0	27040705

### ETIM

ETIM 10.0	EC000382
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### UNSPSC

UNSPSC 21.0	39121000
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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-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	173.847 kg CO2e
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PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)