

# QUINT-HP-UPS/230AC/2.5KVA/PT - Uninterruptible power supply



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QUINT AC UPS, IQ Technology, Panel mounting, input: 230 V AC, output: 230 V AC / 2500 VA.  
At least 2x 1133819 are required for operation.

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## 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

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## Technical data

### Notes

#### General

Note on the battery	For proper operation of the UPS, at least 2 QUINT-HP-BAT/PB/48DC/7.0AH/PT (1133819) battery modules are required. 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.
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### 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
	57 Hz ... 63 Hz
Bypass fuse	25 A T 250 V
Permissible backup fuse	B25 C25
Current consumption	nom. 15.2 A (200 V AC)
	nom. 14.5 A (210 V AC)
	nom. 13.8 A (220 V AC)
	nom. 13.2 A (230 V AC)
	nom. 12.7 A (240 V AC)
	max. 21.3 A (200 V AC)
	max. 21.4 A (210 V AC)
max. 20.5 A (220 V AC)	
max. 20.8 A (230 V AC)	
max. 19.9 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)
	> 89 % (100% load, battery charged)
Apparent power	2500 VA
Real power	2250 W
Power factor (cos phi)	0.9
Crest factor	2.8
Switch-over time	0 ms

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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 <sub>cw</sub>	6 kA

## Mains operation

Output voltage	200 V AC ±2 %
	210 V AC ±2 %
	220 V AC ±2 %
	230 V AC ±2 %
	240 V AC ±2 %
Form of output voltage	Pure sine
Output current	nom. 12.5 A (200 V AC)
	nom. 11.9 A (210 V AC)
	nom. 11.4 A (220 V AC)
	nom. 10.9 A (230 V AC)
Static Boost (I <sub>Stat.Boost</sub> )	nom. 10.4 A (240 V AC)
Maximum no-load power dissipation	10 W
Power loss nominal load max.	< 100 W (100% load, battery charged)
Nominal output frequency	50 Hz
	60 Hz
	±0.5 % (Output frequency tolerance)
Electronic current limitation	> 2,5 x Output: Current nom. (> 200 ms)

## Battery operation

Maximum no-load power dissipation	10 W
Power loss nominal load max.	275 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	> 2,5 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

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Charging current	max. 10 A
Output	
Short-circuit current	650 A (< 1,5 ms)
General	
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 (⊕  )

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>
AWG	14 ... 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 (⊕  )

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>
AWG	14 ... 10 (Cu)

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Stripping length	10 mm (Rigid/flexible/ferrule)
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## Output

Position	2.x
Identification	2.4 (L'), 2.5 (N), 2.6 (⊕ IEC 60364)

## Connection technology

Position marking	2.4 (L'), 2.5 (N), 2.6 (⊕ IEC 60364)
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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>
AWG	14 ... 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>

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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)

## 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

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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
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

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Continuous load current	≤ 20 mA
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## Signal ground SGnd

Function	Signal ground
Reference potential	For signal inputs and signal outputs

## Product properties

Product type	AC UPS
Product family	QUINT AC UPS

## Insulation characteristics

Protection class	I
Overvoltage category	II
Pollution degree	2

## 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
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Standards/specifications	EN 62040-1
	EN 62040-2

## 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

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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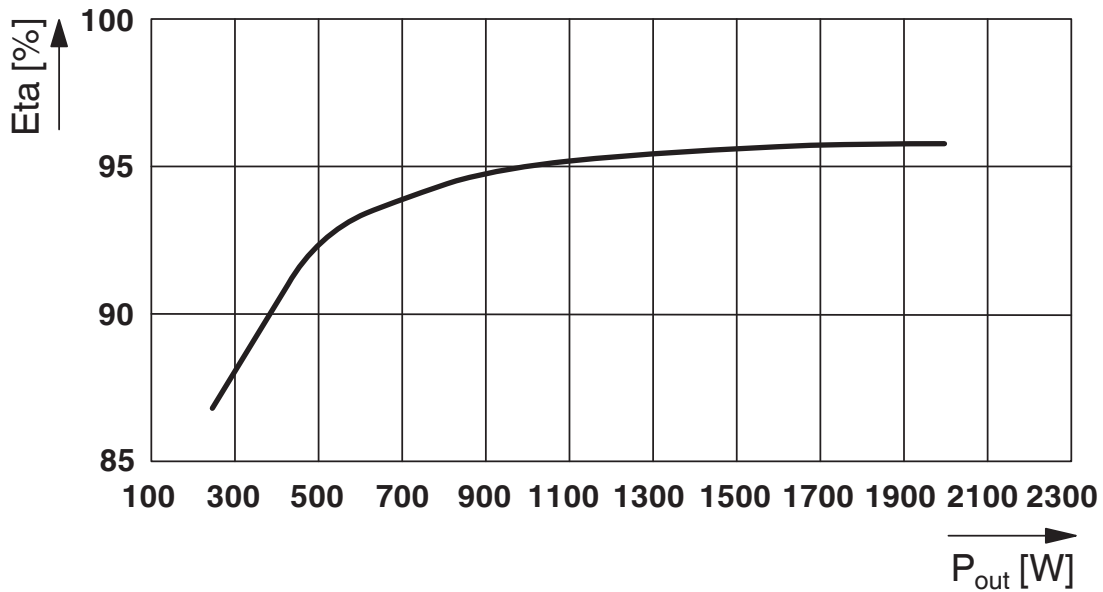


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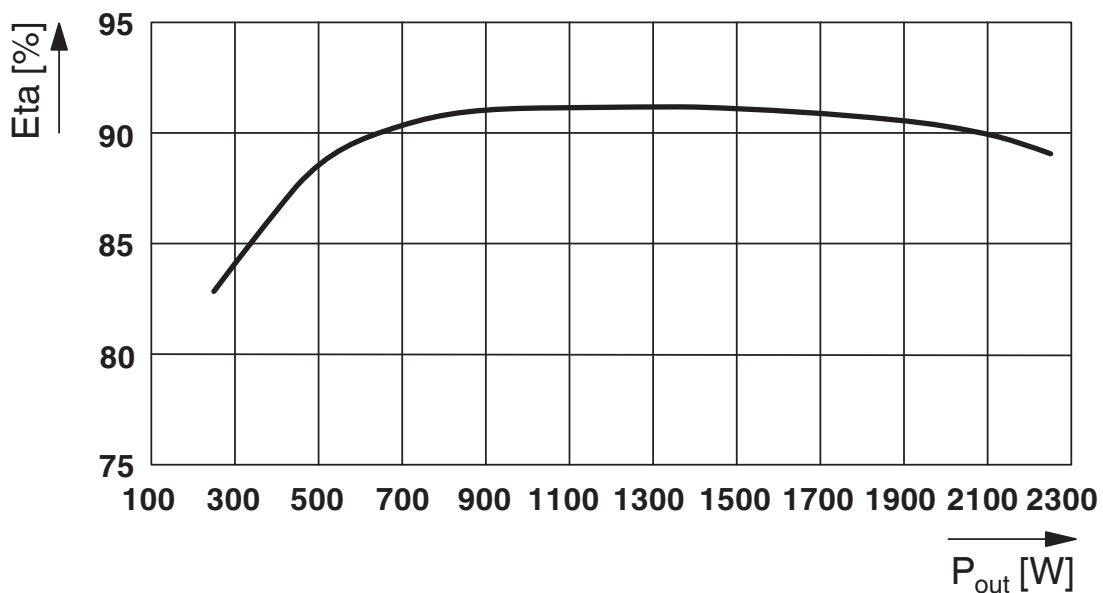
## Drawings

Diagram



Efficiency (normal operation)

Diagram



Efficiency (battery operation)



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## Approvals

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**IECEE CB Scheme**  
Approval ID: DK-144720-UL

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## Classifications

### ECLASS

ECLASS-13.0	27040705
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### ETIM

ETIM 9.0	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-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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