

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



1136811

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

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QUINT AC UPS, IQ Technology, Panel mounting, input: 230 V AC, output: 230 V AC / 1500 VA.

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	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
	57 Hz ... 63 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

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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. 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
	± 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
	± 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

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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
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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 ² ... 6 mm ²
flexible	1.5 mm ² ... 6 mm ²
flexible with ferrule without plastic sleeve	1.5 mm ² ... 4 mm ² (Cu)
flexible with ferrule with plastic sleeve	1.5 mm ² ... 4 mm ²
AWG	16 ... 10 (Cu)
Stripping length	10 mm (Rigid/flexible/ferrule)

Input

Position	1.x
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Connection technology

Position marking	1.3 (⊕ IEC 80)
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Conductor connection

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

Output

Position	2.x
Identification	2.1 (L), 2.2 (L'), 2.3 (N), 2.4 (⊕ IEC 80)

Connection technology

Position marking	2.1 (L), 2.2 (L'), 2.3 (N), 2.4 (⊕ IEC 80)
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Conductor connection

Connection method	Push-in connection
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rigid	1.5 mm ² ... 6 mm ²
flexible	1.5 mm ² ... 6 mm ²
flexible with ferrule without plastic sleeve	1.5 mm ² ... 4 mm ²
flexible with ferrule with plastic sleeve	1.5 mm ² ... 4 mm ²
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 ² ... 16 mm ²
flexible	6 mm ² ... 16 mm ²
flexible with ferrule without plastic sleeve	6 mm ² ... 16 mm ²
flexible with ferrule with plastic sleeve	6 mm ² ... 16 mm ²
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 ² ... 4 mm ²
flexible	0.2 mm ² ... 4 mm ²
flexible with ferrule without plastic sleeve	0.2 mm ² ... 2.5 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² ... 2.5 mm ²
AWG	24 ... 12
Stripping length	10 mm

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 $< 2.7 \text{ k}\Omega$
High signal	Open ($> 200 \text{ k}\Omega$ 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 $< 2.7 \text{ k}\Omega$
High signal	Open ($> 35 \text{ k}\Omega$ 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	$\leq 20 \text{ mA}$

Signal output Battery Mode

Position	3.x
Signalization designation	Bat.-Mode

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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
Reference potential	For signal inputs and signal outputs

Product properties

Product type	AC UPS
Product family	QUINT AC UPS

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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

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

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

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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

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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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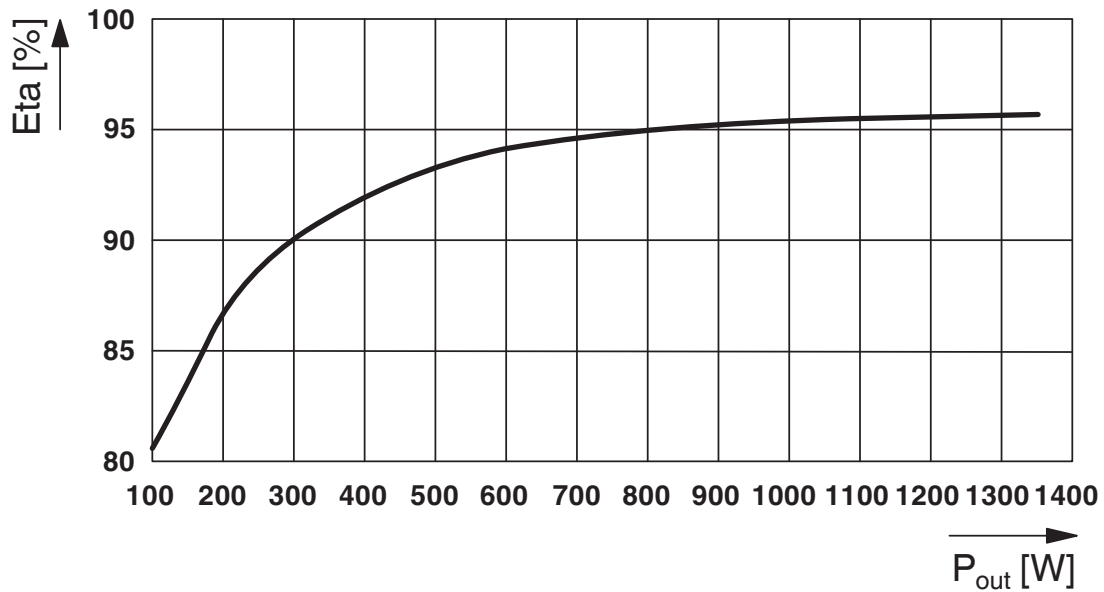


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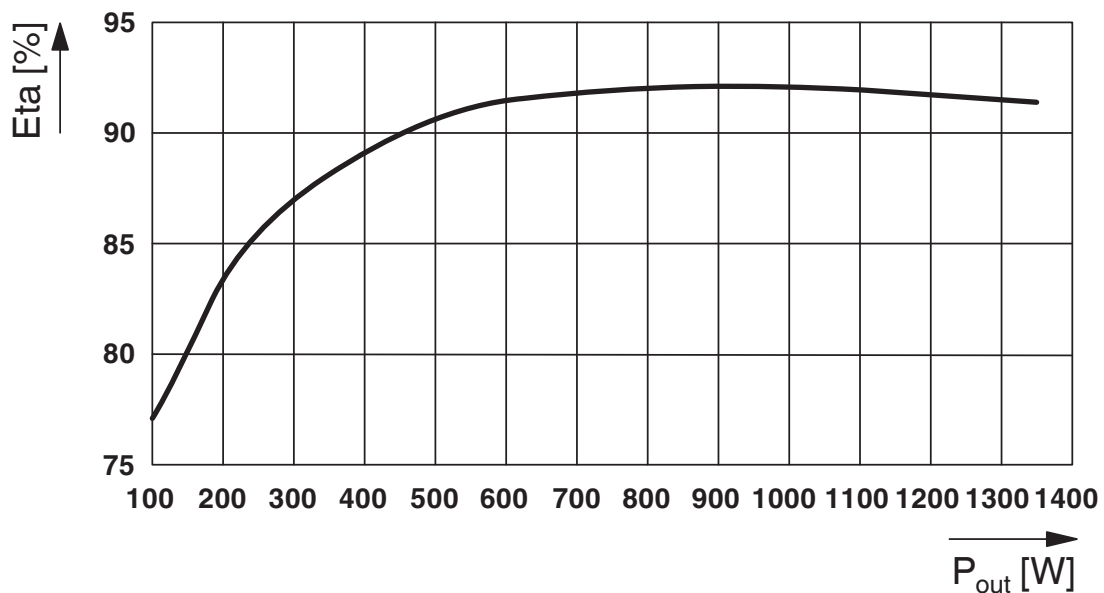
Drawings

Diagram



Efficiency (normal operation)

Diagram



Efficiency (battery operation)

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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	12
100 W	1	2	3	5	7	8	9	10	15	20	30	40	45	50	1	2	3	4	5	6	8	9	10	12
250 W																								
500 W																								
800 W																								
1000 W																								
1150 W																								
1350 W																								

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

- 1x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 2x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 3x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 4x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT
- 5x 1133819 QUINT-HP-BAT/PB/48DC/7.0AH/PT

QUINT HP UPS 1.5 kVA buffer times

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Approvals

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IECEE CB Scheme
Approval ID: DK-140979-UL



IECEE CB Scheme
Approval ID: DK-144719-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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Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au