

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



1136811

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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	CM30
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

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



1136811

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

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

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



1136811

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

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)
-----------------------	------------------

General

Connection in parallel	yes
	max. 5

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



1136811

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

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)

Connection technology

Position marking	1.1 (L), 1.2 (N)
------------------	------------------

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
Identification	1.3 (⊕ IEC 820)

Connection technology

Position marking	1.3 (⊕ IEC 820)
------------------	-----------------

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 820)

Connection technology

Position marking	2.1 (L), 2.2 (L'), 2.3 (N), 2.4 (⊕ IEC 820)
------------------	---

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



1136811

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

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
flexible with ferrule with plastic sleeve	1.5 mm ² ... 4 mm ²
AWG	16 ... 10 (Cu)
Stripping length	10 mm (Rigid/flexible/ferrule)

Battery

Position	4.x
Identification	4.1, 4.2

Connection technology

Position marking	4.1 (+), 4.2 (-)
------------------	------------------

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 (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)
------------------	---

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 (Cu)
Stripping length	10 mm (Rigid/flexible/ferrule)

Communication

Position	5.x
Identification	5.1 ... 5.3

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



1136811

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

Connection technology

Position marking	5.1 (LIN), 5.2 (Parallel Port), 5.3 (Parallel Port)
------------------	---

Conductor connection

Connection method	RJ45
-------------------	------

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
Output voltage	24 V
Continuous load current	≤ 20 mA

Signal output Battery Mode

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



1136811

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

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
Reference potential	For signal inputs and signal outputs

Product properties

Product type	AC UPS
--------------	--------

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



1136811

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

Product family	QUINT AC UPS
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

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

Mounting

Mounting type	Panel mounting
---------------	----------------

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

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



1136811

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

Noise immunity	Immunity
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	± 6 kV
Discharge in air	± 8 kV
Comments	Criterion A
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
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
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
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
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

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



1136811

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

Frequency	50 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.

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

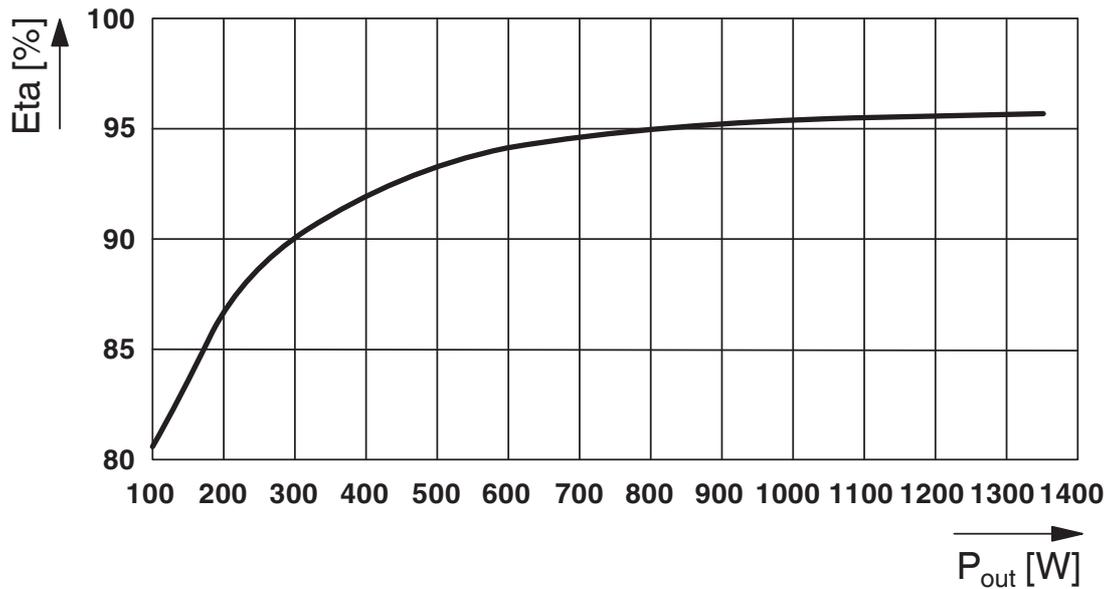


1136811

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

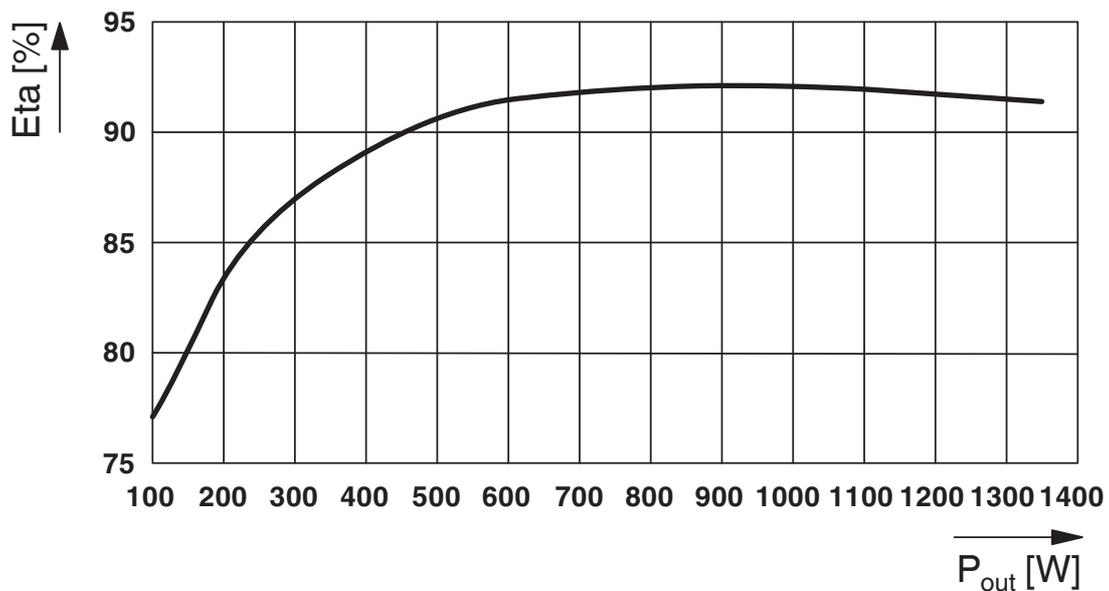
Drawings

Diagram



Efficiency (normal operation)

Diagram



Efficiency (battery operation)

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



1136811

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

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

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



1136811

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

Approvals

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



IECEE CB Scheme
Approval ID: DK-140979-UL



IECEE CB Scheme
Approval ID: DK-144719-UL

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



1136811

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

Classifications

ECLASS

ECLASS-13.0	27040705
ECLASS-15.0	27040705

ETIM

ETIM 9.0	EC000382
----------	----------

UNSPSC

UNSPSC 21.0	39121000
-------------	----------

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



1136811

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

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

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%
-------------------------------------	----------------------------

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



1136811

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

Mandatory accessories

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

1133819

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



Battery module (device with battery), VRLA-AGM, 48 V DC, 7 Ah

Accessories

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

2907919

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

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



1136811

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

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

1252055

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



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

QUINT-HP-FAN - Fan

1252068

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



Replaceable fan module for QUINT-HP-AC UPS

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



1136811

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

MINI-SCREW-USB-DATACABLE - Data cable

2908217

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



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

CABLE-USB/MINI-USB-3,0M - USB cable

2986135

<https://www.phoenixcontact.com/us/products/2986135>



USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m

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



1136811

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

POWER MANAGEMENT SUITE - Configuration software

1252232

<https://www.phoenixcontact.com/us/products/1252232>

Configuration and management software



Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com