

## Uninterruptible power supply - QUINT-UPS/ 24DC/12DC/5/24DC/10 - 2320461

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Uninterruptible power supply with IQ technology for DIN rail mounting, input: 24 V DC, output: 24 V DC/10 A and 12 V DC/5 A, including mounted universal DIN rail adapter UTA 107/30

### Product Features

- Easy handling thanks to automatic battery detection, tool-free battery replacement during operation, and communication via the IFS interface
- Reliable starting of difficult loads with the static POWER BOOST power reserve with up to 1.5 times the nominal current permanently
- Fast tripping of standard circuit breakers with SFB (selective fuse breaking) technology
- Device suitable for universal use thanks to comprehensive license package and extensive parameterization and diagnostics options
- One UPS module - two voltages
- Maximum flexibility, thanks to the dual output



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	760.0 g
Custom tariff number	85371091
Country of origin	China

### Technical data

#### Dimensions

Width	35 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	123 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	39 mm

# Uninterruptible power supply - QUINT-UPS/ 24DC/12DC/5/24DC/10 - 2320461

## Technical data

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (25°C, non-condensing)
Noise immunity	EN 61000-6-2:2005

### Input data

Nominal input voltage	24 V DC
Nominal input voltage range	18 V DC ... 30 V DC
Input voltage range	18 V DC ... 30 V DC
Current consumption	16 A (Maximum, mains operation)
	104 mA (No load, mains operation)
	4 A (Charging, mains operation)
Current consumption (maximum)	16 A (Maximum, mains operation)
Current consumption (idle)	104 mA (No load, mains operation)
Current consumption (charging process)	4 A (Charging, mains operation)
Buffer period	3 h (With battery module 38 AH)
Choice of suitable circuit breakers	16 A ... 20 A (Characteristic B)

### Output data (24 V DC mains operation)

Nominal output voltage	24 V DC
Output voltage range (depends on the input voltage)	18 V DC ... 30 V DC ( $U_{OUT} = U_{IN} - 0.5 \text{ V DC}$ )
Nominal output current ( $I_N$ )	10 A (-25 °C ... 60 °C)
POWER BOOST ( $I_{Boost}$ )	15 A (-25°C ... 40°C)
Selective Fuse Breaking ( $I_{SFB}$ )	60 A (-25 °C ... 60 °C)

### Output data (12 V DC mains operation)

Nominal output voltage	12 V DC
Nominal output current ( $I_N$ )	5 A (-25 °C ... 60 °C)
POWER BOOST ( $I_{Boost}$ )	7.5 A (-25°C ... 40°C)

### Output data (24 V DC battery operation)

Nominal output voltage	24 V DC
Output voltage range (depends on the input voltage)	19.2 V DC ... 27.6 V DC ( $U_{OUT} = U_{BAT} - 0.5 \text{ V DC}$ )
Nominal output current ( $I_N$ )	10 A (-25 °C ... 60 °C)
POWER BOOST ( $I_{Boost}$ )	15 A (-25°C ... 40°C)
Selective Fuse Breaking ( $I_{SFB}$ )	65 A (-25 °C ... 60 °C)

# Uninterruptible power supply - QUINT-UPS/ 24DC/12DC/5/24DC/10 - 2320461

## Technical data

### Output data (12 V DC battery operation)

Nominal output voltage	12 V DC
Nominal output current ( $I_N$ )	5 A (-25 °C ... 60 °C)
POWER BOOST ( $I_{Boost}$ )	7.5 A (-25 °C ... 40 °C)

### General output data

Total power $P_{12V} + P_{24V}$	max. 360 W
Efficiency 12 V DC	> 93 % (Mains operation, with charged power storage)
Efficiency 24 V DC	> 98 % (Mains operation, with charged power storage)

### General

IQ technology	Yes
Net weight	0.6 kg
Protection class	III
MTBF (IEC 61709, SN 29500)	> 652000 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: horizontal 5 mm, vertical 50 mm

### Connection data, input

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	16
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M4

### Connection data, output

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	16
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M4

# Uninterruptible power supply - QUINT-UPS/ 24DC/12DC/5/24DC/10 - 2320461

## Technical data

### Connection data for signaling

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M4

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Shock	30g in each direction, according to IEC 60068-2-27
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-6
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Rail applications	EN 50121-4

## Classifications

### eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040603
eCl@ss 5.0	27040603
eCl@ss 5.1	27040603
eCl@ss 6.0	27040603
eCl@ss 7.0	27040603
eCl@ss 8.0	27040603

# Uninterruptible power supply - QUINT-UPS/ 24DC/12DC/5/24DC/10 - 2320461

## Classifications

### eCl@ss

eCl@ss 9.0	27040705
------------	----------

### ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000382
ETIM 5.0	EC000382

### UNSPSC

UNSPSC 6.01	30211510
UNSPSC 7.0901	39121011
UNSPSC 11	39121011
UNSPSC 12.01	39121011
UNSPSC 13.2	39121011

## Approvals

### Approvals

---

#### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

---

#### Ex Approvals

---

#### Approvals submitted

---

### Approval details

UL Recognized
---------------

UL Listed
-----------

# Uninterruptible power supply - QUINT-UPS/ 24DC/12DC/5/24DC/10 - 2320461

## Approvals

cUL Recognized

cUL Listed

EAC

EAC

cULus Recognized

cULus Listed

## Drawings

Block diagram

