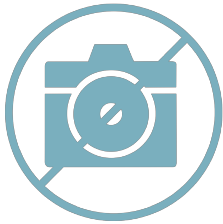


# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

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Uninterruptible energy supply with IQ technology and integrated energy storage for DIN rail mounting, input 24 V DC, output: 24 V DC/10 A, energy storage: lead AGM 3.4 Ah, incl. mounted UTA 107/30 universal DIN rail adapter

## Product Description

UPS modules with integrated energy storage are particularly space saving: UPS module and energy storage are combined in one housing. It's just a case of connecting a power supply upstream.

## Your advantages


- ✓ 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



**IQ Technology**  
Designed by PHOENIX CONTACT



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 554183
GTIN	4046356554183
Weight per Piece (excluding packing)	4,500.800 g
Custom tariff number	85371091
Country of origin	China

## Technical data

### Dimensions

Width	120 mm
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## Technical data

### Dimensions

Height	169 mm
Depth	125 mm
Installation distance right/left	5 mm / 5 mm
Installation distance top/bottom	50 mm / 50 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (storage/transport)	-20 °C ... 40 °C
Max. permissible relative humidity (operation)	≤ 95 % (25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2

### Input data

Input voltage	24 V DC
Input voltage range	18 V DC ... 30 V DC
Current consumption (maximum)	18.6 A (24 V DC)
Current consumption (idle)	9.5 mA
Current consumption (charging process)	3.6 A

### 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 ( $U_{OUT} = U_{IN} - 0,1 \text{ V DC}$ )
Nominal output current ( $I_N$ )	10 A (0 °C ... 40 °C)
POWER BOOST ( $I_{Boost}$ )	15 A (0 °C ... 40 °C)
Selective Fuse Breaking ( $I_{SFB}$ )	60 A (0 °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 (0 °C ... 40 °C)
POWER BOOST ( $I_{Boost}$ )	15 A (0 °C ... 40 °C)
Selective Fuse Breaking ( $I_{SFB}$ )	65 A (0 °C ... 40 °C)

### General output data

Efficiency	> 97.6 % (Mains operation, with charged energy storage)
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### General

IQ technology	Yes
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# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

## Technical data

### General

Disposal	Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations.
Net weight	3.8 kg
Memory medium	VRLA-AGM Battery 4.0 Ah
Protection class	III
MTBF (IEC 61709, SN 29500)	> 806000 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: horizontal 5 mm, vertical 50 mm

### Energy storage

Battery technology	VRLA-AGM
Accumulator type	2x BB Battery HR4.2-12FR (from UPS V/C-level 06)
Buffer period	180 min. (1 A)
	10 min. (10 A)

### Connection data, input

Connection method	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	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 for signaling

# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

## Technical data

### Connection data for signaling

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
Screw thread	M4

### Standards

EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
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)
Rail applications	EN 50121-4

### Conformance/approvals

UL approvals	UL/C-UL Recognized UL 60950-1
	UL Listed UL 508

### EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electrostatic discharge	EN 61000-4-2
Contact discharge	8 kV (Test Level 4)
Discharge in air	15 kV (Test Level 4)
Electromagnetic HF field	EN 61000-4-3
Frequency range	80 MHz ... 1 GHz
Test field strength	20 V/m
Frequency range	1 GHz ... 3 GHz
Test field strength	10 V/m
Frequency range	2 GHz ... 3 GHz
Test field strength	3 V/m
Comments	Criterion A
Fast transients (burst)	EN 61000-4-4
Input	2 kV (Test Level 3 - asymmetrical)

## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

### Technical data

#### EMC data

Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 4 - asymmetrical)
Comments	Criterion A
Surge voltage load (surge)	EN 61000-4-5
Input	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion A
Conducted interference	EN 61000-4-6
I/O/S	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V (Test Level 3)
Comments	Criterion A
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

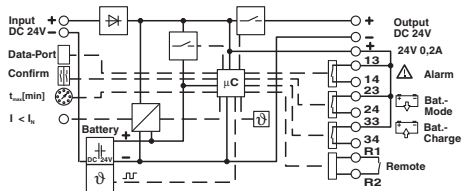
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 3
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

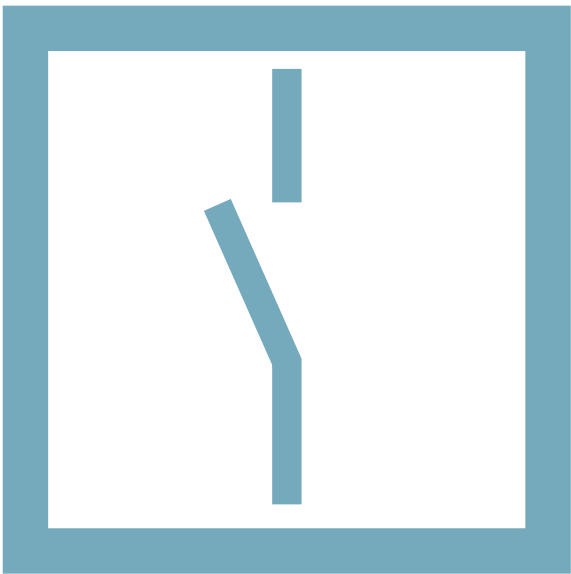
### Drawings

Uninterruptible power supply - QUINT-UPS/ 24DC/  
24DC/10/3.4AH - 2320267

Block diagram



Pictogram



Pictogram



Classifications

eCl@ss

eCl@ss 10.0.1

27040705

## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

### Classifications

#### eCl@ss

eCl@ss 11.0	27040705
eCl@ss 4.0	27040600
eCl@ss 4.1	27040600
eCl@ss 5.0	27040600
eCl@ss 5.1	27040600
eCl@ss 6.0	27040600
eCl@ss 7.0	27040603
eCl@ss 9.0	27040705

#### ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000382
ETIM 6.0	EC000382
ETIM 7.0	EC000382

#### UNSPSC

UNSPSC 6.01	30211510
UNSPSC 7.0901	39121011
UNSPSC 11	39121011
UNSPSC 12.01	39121011
UNSPSC 13.2	39121011
UNSPSC 18.0	39121011
UNSPSC 19.0	39121011
UNSPSC 20.0	39121011
UNSPSC 21.0	39121011

### Approvals

#### Approvals

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##### Approvals

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

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##### Ex Approvals








cUL Listed

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# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

## Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
EAC			EAC-Zulassung
cULus Recognized			
cULus Listed			

## Accessories

### Accessories

Assembly adapter



## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

### Accessories

Assembly adapters - QUINT-PS-ADAPTERS7/1 - 2938196



Assembly adapter for QUINT-PS... power supply on S7-300 rail

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Assembly adapters - UTA 107/30 - 2320089



Universal DIN rail adapter

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Assembly adapters - LM-S-UWA - 2907466



Universal wall adapter for the easy and professional mounting of the LM-S evaluation unit directly on the wall/on a mounting plate.

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### Battery unit

Uninterruptible power supply replacement battery - UPS-BAT-KIT/PB/2X12V/4AH - 1283116



Replacement battery, VRLA-AGM, 2x12 V DC, 4 Ah

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Data cable preassembled

## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

### Accessories

#### Data cable - IFS-USB-DATACABLE - 2320500



Used for communicating between industrial PCs and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS or TRIO UPS.

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#### Data cable - IFS-RS232-DATACABLE - 2320490



Data cable for communication between devices with a D-SUB 9 RS-232 connection and Phoenix Contact devices with the 12-pos. IFS data port such as QUINT UPS-IQ or TRIO UPS.

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#### Data cable - IFS-MINI-DIN-DATACABLE - 2320487



Data cable for communication, e.g., between Phoenix Contact type ILC 1xx Inline controllers and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS-IQ UPS or TRIO UPS

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#### Data cable - IFS-OPEN-END-DATACABLE - 2320450



Data cable with open cable ends for communication, e.g., between a Phoenix Contact Inline communication terminal (IB IL RS UNI-PAC, 2700893) and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS-IQ or TRIO UPS

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### Fuse

#### Fuse - FUSE 15A/32V FKS ATO - 2908361



Fuse, nominal current: 15 A, length: 19 mm, width: 5 mm, height: 13 mm

## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/10/3.4AH - 2320267

### Accessories

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#### Memory block

Memory block - IFS-CONFSTICK-L - 2901103



Multi-functional memory block with handle for the INTERFACE system; for easy storage and back up of the configuration.

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