

# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

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Uninterruptible power supply with IQ technology 24 V/20 A. Provides information regarding the charging state, remaining runtime, and service life of your rechargeable battery module at all times and thereby increases system availability.

## 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



## Key commercial data

Packing unit	1 PCE
Catalog page	Page 615 (IF-2011)
GTIN	4 046356 554190
Custom tariff number	85044082
Country of origin	CHINA

## Technical data

### Input data

Nominal input voltage	24 V DC
DC input voltage range	18 V DC ... 30 V DC
Current consumption	32.9 A (Maximum, mains operation)
Current consumption	10.5 mA (No load, mains operation)
Current consumption	6.9 A (Charging, mains operation)
Current consumption (maximum)	32.9 A (Maximum, mains operation)
Current consumption (idle)	10.5 mA (No load, mains operation)

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## Technical data

### Input data

Current consumption (charging process)	6.9 A (Charging, mains operation)
Buffer period	1 h (With battery module 38 AH)

### Output data

Nominal output voltage	24 V DC
Output voltage range	18 V DC ... 30 V DC
Output current	20 A (-25 °C ... 50 °C)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, up to 2 modules with redundancy module
Connection in series	No

### General data

Width	40 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	123 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	43 mm
Net weight	0.6 kg
Efficiency	> 98 % (Mains operation, with charged power storage)
Efficiency	98 % (Battery operation)
Degree of protection	IP20
Protection class	III
MTBF (IEC 61709, SN 29500)	> 500000 h (According to EN 29500)
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (25°C, no condensation)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: horizontal 5 mm, vertical 50 mm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise immunity	EN 61000-6-2:2005
Low Voltage Directive	Conformance with LV directive 2006/95/EC
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/C-UL Recognized UL 60950
UL approvals	UL Listed UL 508

### Connection data, input

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## Technical data

### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	12
Conductor cross section AWG/kcmil max	10
Stripping length	8 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.	6 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	12
Conductor cross section AWG/kcmil max	10
Stripping length	8 mm

### Signaling

Signalization designation	Power In OK
Status display	Green LED
Note on status display	Static to
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M4
Signalization designation	Alarm
Output name	Switching output
Output description	Relay (floating)
Maximum switching voltage	≤ 30 V AC/DC
Continuous load current	≤ 100 mA

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## Technical data

### Signaling

Status display	LED red
Note on status display	Static to
Signalization designation	Battery charge
Output name	Switching output
Output description	Relay (floating)
Maximum switching voltage	≤ 30 V AC/DC
Output voltage	24 V
Continuous load current	≤ 100 mA
Status display	LED bar graph green/red
Note on status display	dynamic
Signalization designation	Battery mode
Output name	Switching output
Output description	Relay (floating)
Type of signaling	Battery mode
Maximum switching voltage	≤ 30 V AC/DC
Output voltage	24 V
Continuous load current	≤ 100 mA
Status display	Yellow LED
Note on status display	Static to

## Classifications

### ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000382
ETIM 5.0	EC000382

### UNSPSC

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

### eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27242213

# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

## Classifications

### eCl@ss

eCl@ss 5.1	27040603
eCl@ss 6.0	27040603
eCl@ss 7.0	27040603

## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

#### Approvals submitted

### Approval details

UL Recognized

UL Listed

cUL Recognized

cUL Listed

cULus Recognized

# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

## Approvals



## Accessories

### Accessories

#### Software

Configuration software - UPS-CONF - 2320403



Configuration software for QUINT UPS IQ and TRIO UPS. Remember to order IFS-USB-DATACABLE or IFS-RS232-DATACABLE as well in order to use the software.

Power storage devices - UPS-BAT/VRLA/24DC/ 3.4AH - 2320306



Power storage device, lead AGM, VRLA technology, 24 V DC, 3.4 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

Power storage devices - UPS-BAT/VRLA/24DC/ 7.2AH - 2320319



Power storage device, lead AGM, VRLA technology, 24 V DC, 7.2 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

Power storage devices - UPS-BAT/VRLA/24DC/12AH - 2320322



Power storage device, lead AGM, VRLA technology, 24 V DC, 12 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

### Accessories

#### Power storage devices - UPS-BAT/LI-ION/24DC/120WH - 2320351



Power storage device, LI-ION technology, 24 V DC, 120 Wh, for ambient temperatures of -20°C ... 58°C, automatic detection and communication with QUINT UPS-IQ

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#### Power storage devices - UPS-BAT/VRLA/24DC/38AH - 2320335



Power storage device, lead AGM, VRLA technology, 24 V DC, 38 Ah, automatic detection, and communication with QUINT UPS-IQ

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#### 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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#### Memory block - IFS-CONFSTICK - 2986122



Multi-functional memory block for the INTERFACE system for easy storage and backup of the configuration.

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#### Assembly adapters - UWA 182/52 - 2938235



Universal wall adapter

## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

### 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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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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Power storage devices - UPS-CAP/24DC/10A/10KJ - 2320377



Maintenance-free power storage device based on dual layer capacitor

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Power storage devices - UPS-CAP/24DC/20A/20KJ - 2320380



Maintenance-free power storage device based on dual layer capacitor

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## Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

### Accessories

Power storage devices - UPS-BAT/VRLA-WTR/24DC/13AH - 2320416



Power storage device, lead AGM, VRLA technology, 24 V DC, 13 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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Power storage devices - UPS-BAT/VRLA-WTR/24DC/26AH - 2320429



Power storage device, lead AGM, VRLA technology, 24 V DC, 26 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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### Drawings

# Uninterruptible power supply - QUINT-UPS/ 24DC/ 24DC/20 - 2320238

Block diagram



