

# QUINT-UPS/ 24DC/ 24DC/20

Order No.: 2320238




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2320238>

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.



## Commercial data

GTIN (EAN)	4  046356 554190
sales group	H061
Pack	1 pcs.
Catalog page information	Page 615 (IF-2011)

## Product notes

WEEE/RoHS-compliant since:  
08/31/2010



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

### Input data

Nominal input voltage	24 V DC
DC input voltage range	18 V DC ... 30 V DC

Current consumption	33.9 A (Maximum, mains operation)
	64 mA (No load, mains operation)
	6.9 A (Charging, mains operation)
Current consumption (maximum)	33.9 A (Maximum, mains operation)
Current consumption (idle)	64 mA (No load, mains operation)
Current consumption (charging process)	6.9 A (Charging, mains operation)
Buffer period	1 h (with 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	122 mm
Height with alternative assembly	130 mm
	43 mm
Net weight	0.6 kg
Efficiency	> 98.2 %
Degree of protection	IP20
Protection class	III
MTBF (IEC 61709, SN 29500)	> 500000 h
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 5 cm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise immunity	EN 61000-6-2:2005

Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
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 Listed UL 508

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

### Certificates / Approvals



Certification CUL, CUL Listed, UL, UL Listed

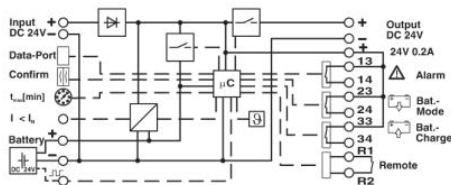
Certifications applied for: UL-EX LIS / CUL-EX LIS

**Accessories**

Item	Designation	Description
<b>General</b>		
2986122	IFS-CONFSTICK	Multi-functional memory block for the INTERFACE systemf for easy storage and backup of the configuration.
2320500	IFS-USB-DATACABLE	Used for communication between the UPS CONF configuration software and the QUINT UPS IQ and TRIO UPS uninterruptible power supply units.
2938196	QUINT-PS-ADAPTERS7/1	Assembly adapter for QUINT-PS... power supply on S7-300 rail
2320351	UPS-BAT/LI-ION/24DC/60WH	Rechargeable battery module, LI-ION technology, 24 V DC, 60 Wh, for ambient temperatures of -20°C ... +60°C, automatic detection and communication with QUINT UPS-IQ
2320306	UPS-BAT/VRLA/ 24DC/ 3.4AH	Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 3.4 Ah, tool-free battery replacement, automatic detection and communication with QUINT UPS-IQ
2320319	UPS-BAT/VRLA/ 24DC/ 7.2AH	Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 7.2 Ah, tool-free battery replacement, automatic detection and communication with QUINT UPS-IQ
2320322	UPS-BAT/VRLA/ 24DC/12AH	Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 12 Ah, tool-free battery replacement, automatic detection and communication with QUINT UPS-IQ
2320089	UTA 107/30	Universal DIN rail adapter
2938235	UWA 182/52	Universal wall adapter
<b>Software</b>		
2320403	UPS-CONF	Configuration software for QUINT UPS can be downloaded free of charge.

**Diagrams/Drawings**

Block diagram



**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



© 2011 Phoenix Contact  
Technical modifications reserved;