

# QUINT-UPS/24DC/24DC/40


Order No.: 2320241



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Uninterruptible power supply with IQ technology 24 V/40 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	
EAN	4  046356 554121
sales group	H061
Pack	1 Pcs.
Customs tariff	85044082
Gross weight in pieces	0.8931 KG
Net weight per piece	0.8931 KG
Catalog page information	Page 615 (IF-2011)

### Product notes

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



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Technical data	
<b>Input data</b>	
Nominal input voltage	24 V DC
DC input voltage range	18 V DC ... 30 V DC

Current consumption	51.9 A (Maximum, mains operation)
	10.6 mA (No load, mains operation)
	6.9 A (Charging, mains operation)
Current consumption (maximum)	51.9 A (Maximum, mains operation)
Current consumption (idle)	10.6 mA (No load, mains operation)
Current consumption (charging process)	6.9 A (Charging, mains operation)
Buffer period	0.5 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	40 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	47 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	123 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	51 mm
Net weight	0.7 kg
Efficiency	> 99 % (Mains operation, with charged power storage)
	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

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 Listed UL 508

#### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	16 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	8
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm
Screw thread	M4

#### Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	16 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	8
Conductor cross section AWG/kcmil max	6
Stripping length	10 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
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

#### Certificates / Approvals



Certification cULus Listed, cULus Recognized

Certifications applied for: cUL / UL

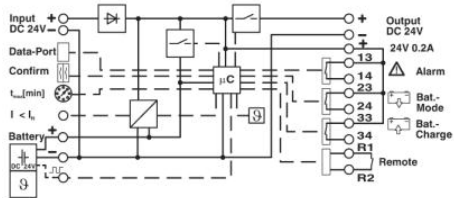
Certification Ex:

### 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.
2320490	IFS-RS232-DATACABLE	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.
2320500	IFS-USB-DATACABLE	Used for communicating between industrial PCs and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS or TRIO UPS.
2938196	QUINT-PS-ADAPTERS7/1	Assembly adapter for QUINT-PS... power supply on S7-300 rail
2320351	UPS-BAT/LI-ION/24DC/120WH	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
2320416	UPS-BAT/VRLA-WTR/24DC/13AH	Power storage device, lead AGM, VRLA technology, 24 V DC, 13 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ
2320429	UPS-BAT/VRLA-WTR/24DC/26AH	Power storage device, lead AGM, VRLA technology, 24 V DC, 26 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ
2320319	UPS-BAT/VRLA/24DC/ 7.2AH	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
2320322	UPS-BAT/VRLA/24DC/12AH	Power storage device, lead AGM, VRLA technology, 24 V DC, 12 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ
2320335	UPS-BAT/VRLA/24DC/38AH	Power storage device, lead AGM, VRLA technology, 24 V DC, 38 Ah, automatic detection, and communication with QUINT UPS-IQ
2320377	UPS-CAP/24DC/10A/10KJ	Maintenance-free power storage device based on dual layer capacitor
2320380	UPS-CAP/24DC/20A/20KJ	Maintenance-free power storage device based on dual layer capacitor
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 IQ and TRIO UPS. Remember to order IFS-USB-DATACABLE or IFS-RS232-DATACABLE as well in order to use the software.

## Drawings

### Block diagram



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