

# QUINT-DC-UPS/24DC/20

Order No.: 2866239



<http://eshop.phoenixcontact.co.uk/phoenix/treeViewClick.do?UID=2866239>

Uninterruptible power supply 24 V/20 A. In the download area, there is a clearly arranged selection table available with load currents and buffer times, as well as charging times after buffer mode.



Commercial data	
EAN	 4 017918 959708
Pack	1
Customs tariff	85044081
Country of Origin	CN
Catalog page information	Page 587 (IF-2009)

### Product notes

WEEE/RoHS-compliant since:  
10/07/2006



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 at <http://www.download.phoenixcontact.com>. 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	22.5 V DC ... 30 V DC

Current consumption	Approx. 0.1 A
	2 A (charging process)
	22 A (max.)
Current consumption (maximum)	22 A (max.)
Current consumption (idle)	Approx. 0.1 A
Current consumption (charging process)	2 A (charging process)
Buffer period	(depends on the storage medium, e.g. 45 min / 20 A)
Input fuse	25 A (slow-blow, internal)
<b>Output data</b>	
Nominal output voltage	24 V DC (Normal operation: $U_{in} - 0.5$ V DC, buffer mode: 27.9 to 19.2 V DC)
Output current	20 A
Connection in parallel	Yes, for increasing the buffer period
Connection in series	Yes
<b>General data</b>	
Width	66 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	130 mm
	69 mm
Net weight	0.8 kg
Memory medium	external, battery 3.4 Ah/7.2 Ah/12 Ah
Operating voltage display	Green LED
Efficiency	> 95 %
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)
Degree of protection	IP20
Protection class	II (in an enclosed control cabinet)
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 % (at 25 °C, no condensation)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 50081-2
Noise immunity	EN 61000-6-2:2005
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Shipbuilding approval	Germanischer Lloyd (EMC 2), ABS, DNV
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

#### 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.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
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.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm

### Signaling

Output description	Power OK
Status display	LED "Power OK" green
Note on status display	Power OK: LED permanently lit
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	M3
Output name	floating
Output description	Alarm
Maximum switching voltage	≤ 30 V AC/DC
Continuous load current	≤ 1 A
Status display	LED red
Note on status display	Alarm: LED permanently lit
Output name	floating
Output description	Battery Charge
Maximum switching voltage	≤ 30 V AC/DC
Continuous load current	≤ 1 A
Status display	LED yellow, flashing
Note on status display	Battery charge: LED flashing
Output name	floating
Output description	Battery Mode
Type of signaling	LED, relay contact
Maximum switching voltage	≤ 30 V AC/DC
Continuous load current	≤ 1 A
Status display	Yellow LED
Note on status display	Battery mode: LED permanently lit

**Certificates**



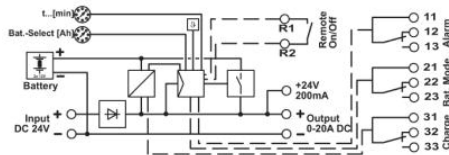
Certification CUL, CUL Listed, DNV, GL, GOST, UL, UL Listed  
 Certification Ex: CUL-EX LIS, UL-EX LIS

**Accessories**

Item	Designation	Description
<b>Fuse</b>		
0913757	SI FORM C 25 A DIN 72581	Flat-type plug-in fuse, type C, color code: white, nominal current: 25 A
<b>General</b>		
2866349	QUINT-BAT/24DC/ 3.4AH	Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 3.4 Ah. Connection via male cable lug, 14 mm.
2866352	QUINT-BAT/24DC/ 7.2AH	Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 7.2 Ah. Connection via male cable lug, 14 mm.
2866365	QUINT-BAT/24DC/12AH	Rechargeable battery module, lead AGM, VRLA technology, 24 V DC, 12 Ah. Connection via male cable lug, 14 mm.
2938206	QUINT-PS-ADAPTERS7/2	Assembly adapter for QUINT POWER 10A on S7-300 rail
2853983	UTA 107	Universal DIN rail adapter, for screwing on switchgear
2938235	UWA 182/52	Universal wall adapter

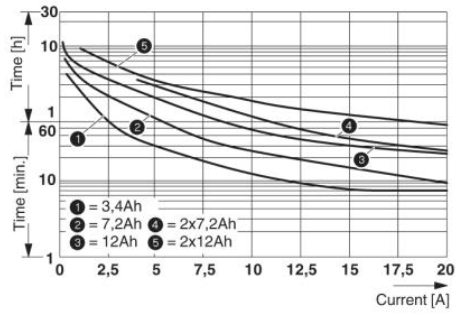
**Drawings**

Block diagram



Diagram

---



**Address**

PHOENIX CONTACT Ltd  
Halesfield 13  
Telford / Shropshire / TF7 4PG,England  
Phone 01952 681 700  
Fax 01952 681 799  
<http://www.phoenixcontact.co.uk>



Phoenix Contact Ltd.  
Technical modifications reserved;