

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



2866239

<https://www.phoenixcontact.com/us/products/2866239>

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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

Item number	2866239
Packing unit	1 pc
Sales key	CM20
Product key	CMUP43
GTIN	4017918959708
Weight per piece (including packing)	980 g
Weight per piece (excluding packing)	800 g
Customs tariff number	85371091
Country of origin	CN

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## Technical data

### Input data

#### DC operation

Input voltage	24 V DC
Input voltage range	22.5 V DC ... 30 V DC
Wide-range input	no
Input voltage range DC	22.5 V DC ... 30 V DC
Voltage type of supply voltage	DC
Buffer period	5 min (10 A) 20 min (20 A)
Current consumption	approx. 0.1 A 2 A (charging process) 22 A (max.)
Fixed backup threshold	< 22 V DC
Variable connect threshold	$(U_{IN} - 1 \text{ V})/0.1 \text{ s}$
Input fuse	25 A (slow-blow, internal)

### Output data

Efficiency	> 95 %
Nominal output voltage	24 V DC (Normal operation: $U_{in} - 0.5 \text{ V DC}$ , buffer mode: 27.9 to 19.2 V DC)
Nominal output current ( $I_N$ )	20 A
Bridging time	20 min
Output power	480 W
Power dissipation	15 W 20 W
Connection in parallel	yes, for increasing the buffer period
Connection in series	yes

#### Mains operation

Nominal output voltage	24 V DC
Nominal output current ( $I_N$ )	20 A

#### Battery operation

Nominal output voltage	24 V DC
Nominal output current ( $I_N$ )	20 A

#### Signal

Output description	Power OK
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#### Signal: floating

Output description	Alarm
Maximum switching voltage	$\leq 30 \text{ V AC/DC}$
Continuous load current	$\leq 1 \text{ A}$

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Signal: floating

Output description	Battery Charge
Maximum switching voltage	≤ 30 V AC/DC
Continuous load current	≤ 1 A

Signal: floating

Output description	Battery Mode
Maximum switching voltage	≤ 30 V AC/DC
Continuous load current	≤ 1 A

## Energy storage

Nominal capacity range	3.4 Ah ... 38 Ah
Battery module service life	6 Years (20 °C)
Latest startup date (battery only)	9 Months (20 °C ... 30 °C)
	6 Months (30 °C ... 40 °C)
Memory medium	external, battery 3.4 Ah / 7.2 Ah / 12 Ah
Network management	Yes

## Connection data

Input

Connection method	Screw connection
Conductor cross-section, rigid min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid max.	16 mm <sup>2</sup>
Conductor cross-section flexible min.	0.5 mm <sup>2</sup>
Conductor cross-section flexible max.	10 mm <sup>2</sup>
Conductor cross-section AWG min.	20
Conductor cross-section AWG max.	6
Stripping length	10 mm
Screw thread	M4

Output

Connection method	Screw connection
Conductor cross-section, rigid min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid max.	16 mm <sup>2</sup>
Conductor cross-section flexible min.	0.5 mm <sup>2</sup>
Conductor cross-section flexible max.	10 mm <sup>2</sup>
Conductor cross-section AWG min.	20
Conductor cross-section AWG max.	6
Stripping length	10 mm
Screw thread	M4

Signal

Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	4 mm <sup>2</sup>

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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	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

## Signaling

Types of signaling	LED
Operating voltage display	Green LED

### Signal output

Status display	LED "Power OK" green
Note on status display	Power OK: LED permanently lit

### Signal output: floating

Status display	LED (red)
Note on status display	Alarm: LED permanently lit

### Signal output: floating

Status display	LED flashing yellow
Note on status display	Battery charge: LED flashing

### Signal output: floating

Status display	LED (yellow)
Note on status display	Battery mode: LED permanently lit

## Electrical properties

Insulation voltage input/output	1 kV (routine test)
	1 kV (type test)

## Product properties

Product type	DC UPS
Product family	QUINT DC UPS
MTBF (IEC 61709, SN 29500)	> 500000 h

### Insulation characteristics

Protection class	II (in closed control cabinet)
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## Dimensions

Width	66 mm
Height	130 mm
Depth	125 mm

### Installation dimensions

Installation distance right/left	5 mm / 5 mm
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Installation distance top/bottom	50 mm / 50 mm
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## Alternative assembly

Width	122 mm
Height	130 mm
Depth	69 mm

## Mounting

Mounting type	DIN rail mounting
Assembly note	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715

## Material specifications

Housing material	Metal
Type of housing	AluNox (AlMg1)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

## Standards and regulations

Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Standard - Safe isolation	DIN VDE 0100-410
Standard - Safety of transformers	EN 61558-2-17

## Approvals

Shipbuilding approval	DNV GL (EMC A), ABS
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950-1
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Noise immunity	EN 61000-6-2:2005

### Noise emission

Standards/regulations	EN 55011 (EN 55022)
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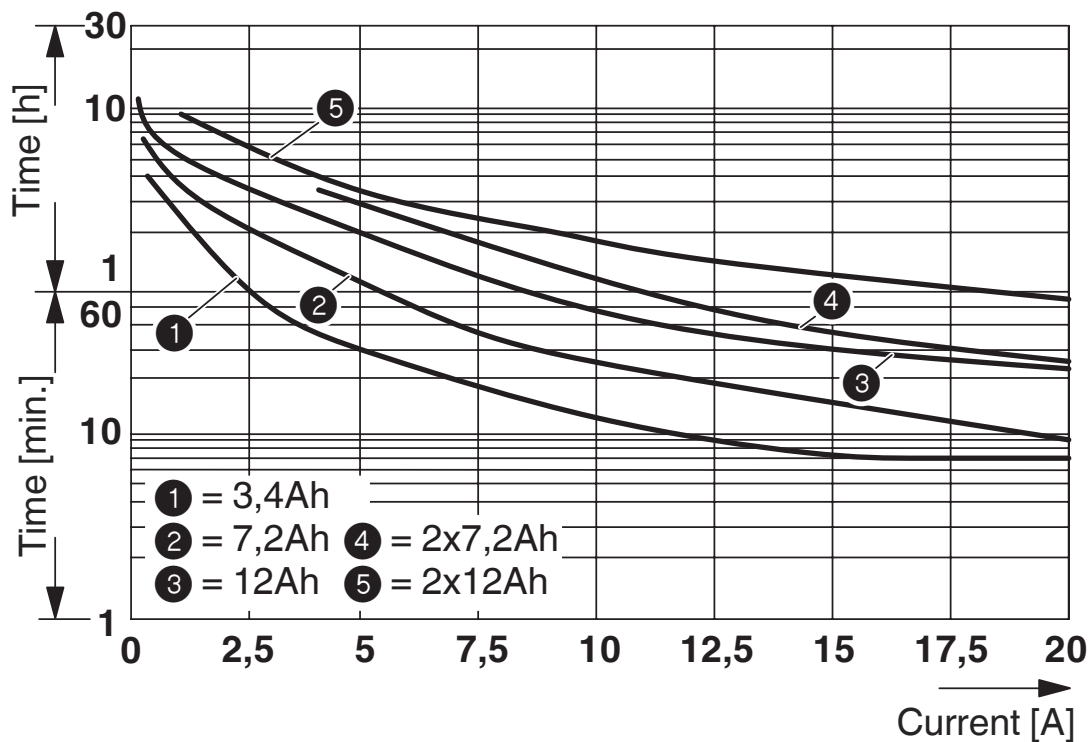


2866239

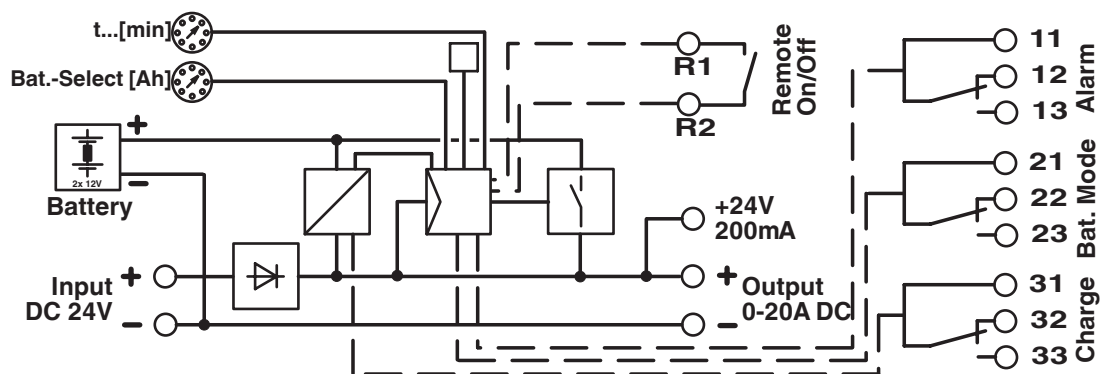
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## Drawings

Diagram



Block diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	39121011
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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