

# QUINT-DC-UPS/24DC/10 - Uninterruptible power supply



2866226

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Uninterruptible power supply 24 V DC/10 A, with integrated 1.3 Ah battery module. 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	2866226
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CM20
Product key	CMUPV3
GTIN	4017918959722
Weight per piece (including packing)	1,908 g
Weight per piece (excluding packing)	1,800 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	1.5 min (10 A) 20 min (2 A)
Current consumption	approx. 0.1 A 0.5 A (charging process) 10.5 A (max.)
Fixed backup threshold	< 22 V DC
Variable connect threshold	$(U_{IN} - 1 \text{ V})/0.1 \text{ s}$
Input fuse	15 A (slow-blow, internal)

### Output data

Efficiency	> 91 %
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 ( $I_N$ )	10 A
Bridging time	2 min
Short-circuit-proof	yes
Output power	240 W
Power dissipation	20 W 8 W
Connection in parallel	no
Connection in series	yes

#### Mains operation

Nominal output voltage	24 V DC
Nominal output current ( $I_N$ )	10 A

#### Battery operation

Nominal output voltage	24 V DC
Nominal output current ( $I_N$ )	10 A

#### Signal

Output description	Power OK
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#### Signal: floating

Output description	Alarm
Maximum switching voltage	$\leq 30 \text{ V AC/DC}$

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Continuous load current	≤ 1 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	1.3 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	internal, battery 1.3 Ah
Network management	Yes

## Connection data

Input

Connection method	Pluggable screw connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
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
Stripping length	7 mm
Screw thread	M3

Output

Connection method	Pluggable screw connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
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
Stripping length	7 mm
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Signal

Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
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Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
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	2 kV (routine test)
	4 kV (type test)

## Product properties

Product type	DC UPS
Product family	QUINT DC UPS
Disposal	Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations.
MTBF (IEC 61709, SN 29500)	> 500000 h

### Insulation characteristics

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

Width	100 mm
Height	130 mm

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Depth	125 mm
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## Installation dimensions

Installation distance right/left	5 mm / 5 mm
Installation distance top/bottom	50 mm / 50 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)	0 °C ... 50 °C
Ambient temperature (storage/transport)	0 °C ... 40 °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

### Conformity/Approvals

SIL in accordance with IEC 61508	0
Performance level according to ISO 13849	without

## 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

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Standards/regulations

EN 55011 (EN 55022)

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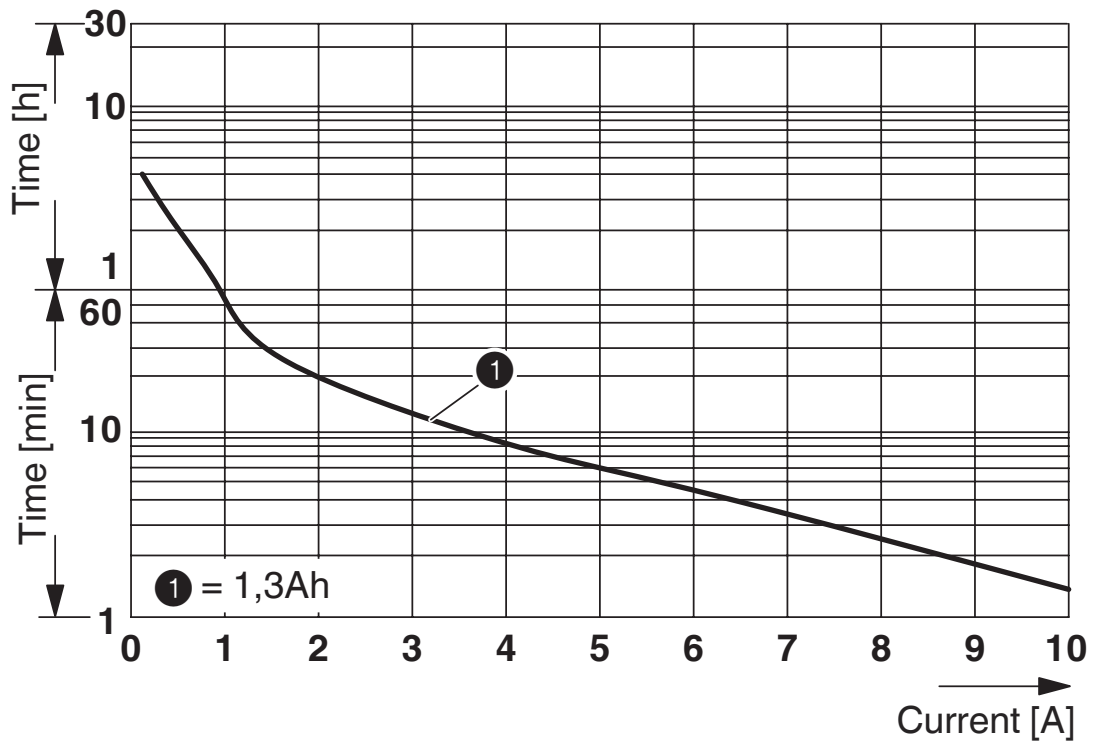


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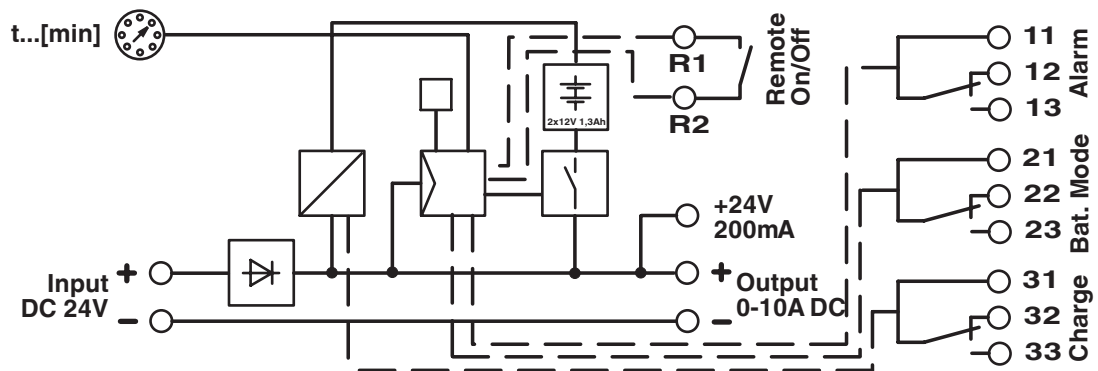
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## Drawings

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-3
	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.)	No substance above 0.1 wt%
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