

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
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CM20
Product key	CMUPV3
Catalog page	Page 587 (IF-2009)
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
Disposal	Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations.
Network management	Yes

Connection data

Input

Connection method	Pluggable screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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 ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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Signal

Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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	Yellow LED
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
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
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Height	130 mm
Depth	125 mm

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 instructions	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

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

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Noise emission

EN 55011 (EN 55022)

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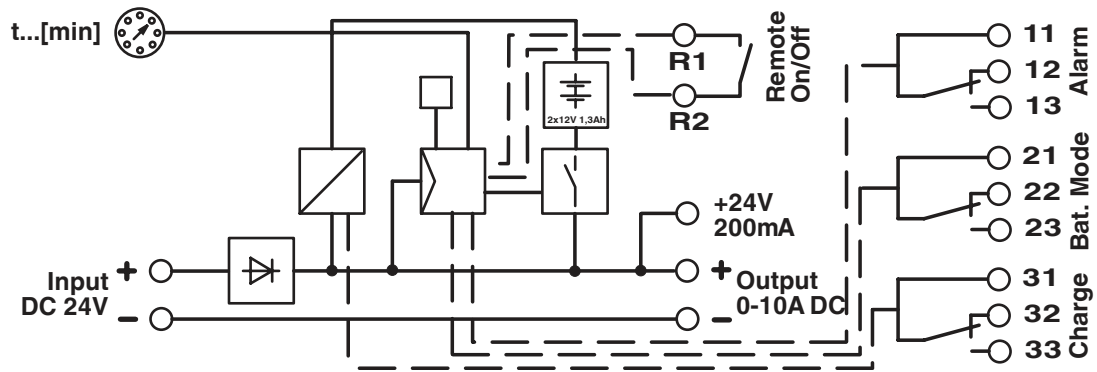


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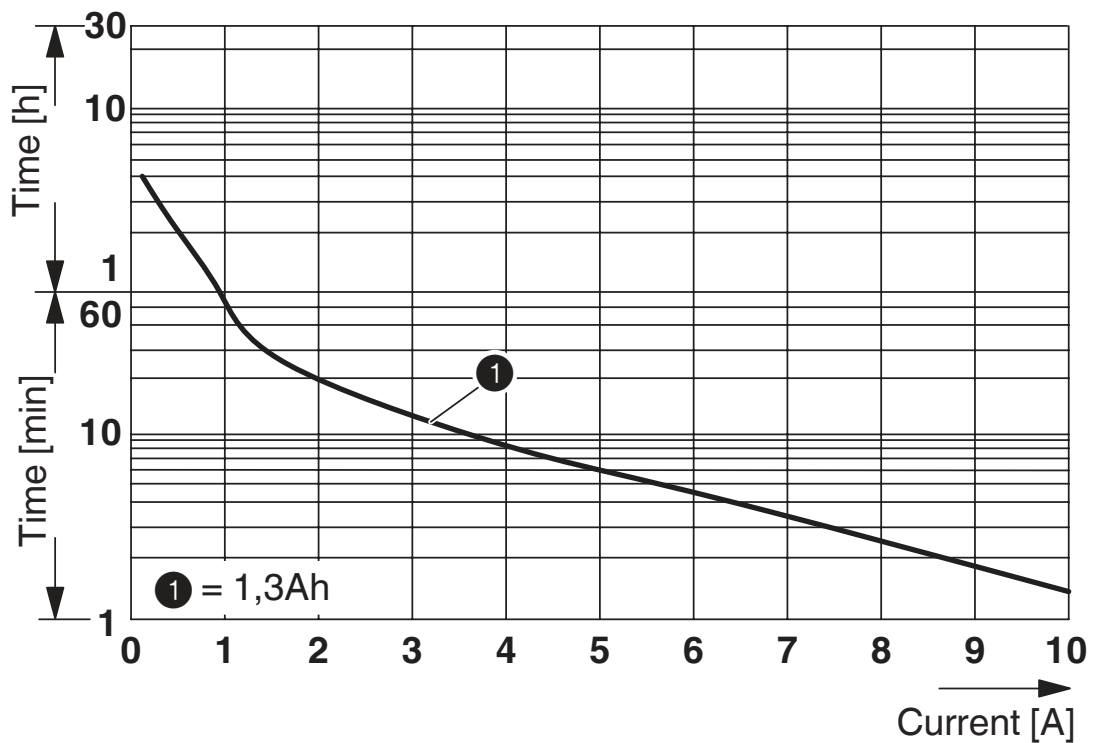
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Drawings

Block diagram



Diagram



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Classifications

ECLASS

ECLASS-11.0

27040705

ETIM

ETIM 7.0

EC000382

UNSPSC

UNSPSC 21.0

39121011

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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 3
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

UWA 182/52 - Mounting adapter

2938235

<https://www.phoenixcontact.com/us/products/2938235>



Universal wall adapter for securely mounting the device in the event of strong vibrations. The device is screwed directly onto the mounting surface. The universal wall adapter is attached on the top/bottom.

UTA 107 - DIN rail adapter

2853983

<https://www.phoenixcontact.com/us/products/2853983>

Universal DIN rail adapter, for screwing on switchgear



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Phoenix Contact USA

586 Fulling Mill Road

Middletown, PA 17057, United States

(+717) 944-1300

info@phoenixcon.com