

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



2320238

<https://www.phoenixcontact.com/in/products/2320238>

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Uninterruptible power supply with IQ technology for DIN rail mounting, input: 24 V DC, output: 24 V DC/20 A, including mounted universal DIN rail adapter UTA 107/30

Product description

The UPS module for 24 V DC with output currents ranging from 5 to 40 A allows you to create a custom solution combining a power supply, UPS module, and energy storage.

Your advantages

- Easy handling thanks to automatic battery detection, tool-free battery replacement during operation, and communication via the IFS interface
- Optimum use of the buffer time and preventive monitoring of the energy storage
- Rapid battery charging
- Comprehensive signaling and parameterization
- Fast tripping of standard circuit breakers with SFB (selective fuse breaking) technology
- Reliable starting of difficult loads with the static POWER BOOST power reserve with up to 1.5 times the nominal current permanently

Commercial data

Item number	2320238
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMU
Product key	CMUQ43
GTIN	4046356554190
Weight per piece (including packing)	800 g
Weight per piece (excluding packing)	601 g
Customs tariff number	85371091
Country of origin	IN

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Technical data

Input data

DC operation

Input voltage	24 V DC
Nominal input voltage range	24 V DC
Input voltage range	18 V DC ... 30 V DC
Input voltage range DC	18 V DC ... 30 V DC
Voltage type of supply voltage	DC
Buffer period	1 h (With battery module 38 AH)
Current consumption	32.9 A (maximum, mains operation)
	10.5 mA (No load, mains operation)
	6.9 A (Charging, mains operation)
Fixed backup threshold	≤ 22 V DC
Variable connect threshold	1 V/0.1 s

Output data

Efficiency	> 98 % (Mains operation, with charged energy storage)
	98 % (Battery operation)
Nominal output voltage	24 V DC
Output voltage range	18 V DC ... 30 V DC
Nominal output current (I_N)	20 A (-25 °C ... 50 °C)
Output current limit	In mains mode according to connected upstream current limiting device
	> 27 A (Battery operation)
Derating	60 °C ... 70 °C (2.5 %/K)
	60 °C ... 70 °C (2.5 %/K)
Output power	480 W
Power dissipation	2.7 W (Mains operation)
	7.65 W (Mains operation)
	3.19 W (Battery operation)
	9.35 W (Battery operation)
Connection in parallel	yes, up to 2 modules with redundancy module
	2 (Devices)
Connection in series	no
	no

Mains operation

Nominal output voltage	24 V DC
Output voltage range	18 V DC ... 30 V DC
Nominal output current (I_N)	20 A (-25 °C ... 60 °C)
POWER BOOST (I_{Boost})	26 A (-25 °C ... 40 °C)
Selective Fuse Breaking (I_{SFB})	120 A (-25 °C ... 60 °C)

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Duration	12 ms (SFB technology)
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Battery operation

Nominal output voltage	24 V DC
Output voltage range	19.2 V DC ... 27.6 V DC ($U_{OUT} = U_{BAT} - 0,5 \text{ V DC}$)
Nominal output current (I_N)	20 A (-25 °C ... 60 °C)
POWER BOOST (I_{Boost})	27 A (-25 °C ... 40 °C)
Selective Fuse Breaking (I_{SFB})	120 A (-25 °C ... 60 °C)
Duration	15 ms (SFB technology)

Signal: Alarm

Output description	Relay (floating)
Maximum switching voltage	$\leq 30 \text{ V AC/DC}$
Continuous load current	$\leq 100 \text{ mA}$

Signal: Battery charge

Output description	Relay (floating)
Maximum switching voltage	$\leq 30 \text{ V AC/DC}$
Output voltage	24 V
Continuous load current	$\leq 100 \text{ mA}$

Signal: Battery mode

Output description	Relay (floating)
Maximum switching voltage	$\leq 30 \text{ V AC/DC}$
Output voltage	24 V
Continuous load current	$\leq 100 \text{ mA}$

Energy storage

Nominal voltage U_N	24 V DC
End-of-charge voltage	24 V DC ... 29 V DC (temperature compensated)
Charging current	0.2 A ... 5 A
Nominal capacity range	3 Ah ... 200 Ah
Battery presence check (cyclic)	60 s
IQ technology	Yes
Temperature compensation	42 mV/K (preset)
Temperature compensation (preset)	42 mV/K
Network management	Yes

Connection data

Input

Connection method	Screw connection
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section, rigid max.	6 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	4 mm ²

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Conductor cross-section AWG min.	12
Conductor cross-section AWG max.	10
Stripping length	8 mm
Screw thread	M4
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Output

Connection method	Screw connection
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section, rigid max.	6 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	4 mm ²
Conductor cross-section AWG min.	12
Conductor cross-section AWG max.	10
Stripping length	8 mm
Screw thread	M4
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Signal

Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section, rigid max.	4 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	M4
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Interfaces

Interface	IFS (Interface system data port)
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Signaling

Types of signaling	LED
	Relay contact
	Interface/software

Signal output

Signalization designation	Power In OK
Status display	LED
Note on status display	static on
	static on

Signal output: Switching output

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Signalization designation	Alarm
Status display	LED
Note on status display	static on
Color	red
Note on status display	static on

Signal output: Switching output

Signalization designation	Battery charge
Status display	LED bar graph
Note on status display	dynamic
Color	green/red
Note on status display	dynamic

Signal output: Switching output

Signalization designation	Battery mode
Status display	LED
Note on status display	static on
Color	yellow
Note on status display	static on

Electrical properties

Insulation voltage input/output	500 V DC
Insulation voltage input, output / housing	750 V DC

Product properties

Product type	DC UPS
Product family	QUINT DC UPS
IQ technology	Yes
MTBF (IEC 61709, SN 29500)	> 500000 h (40 °C)

Insulation characteristics

Protection class	III
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Life expectancy (electrolytic capacitors)

Time	195013 h
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Dimensions

Width	40 mm
Height	130 mm
Depth	125 mm

Installation dimensions

Installation distance right/left	5 mm / 5 mm
Installation distance top/bottom	50 mm / 50 mm

Alternative assembly

Width	123 mm
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Height	130 mm
Depth	43 mm

Mounting

Mounting type	DIN rail mounting
Assembly note	alignable: horizontal 5 mm, vertical 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715

Material specifications

Housing material	Metal
Housing material	Steel sheet, zinc-plated
Type of housing	Aluminum (AlMg3)
Hood version	Galvanized sheet steel, free from chrome (VI)

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
Climatic class	3K3 (in acc. with EN 60721)
Max. permissible relative humidity (operation)	≤ 95 % (25 °C, non-condensing)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6) 15 Hz ... 150 Hz, 2.3g t _v = 90 min.

Standards and regulations

Rail applications	EN 50121-4
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)

Approvals

UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950-1
	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location)

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2

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Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	8 kV (Test Level 4)
Discharge in air	15 kV (Test Level 4)
Comments	Criterion A

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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Electromagnetic HF field

Frequency range	80 MHz ... 1 GHz
Test field strength	20 V/m
Frequency range	1 GHz ... 3 GHz
Test field strength	10 V/m
Frequency range	2 GHz ... 3 GHz
Test field strength	3 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4
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Fast transients (burst)

Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 4 - asymmetrical)
Comments	Criterion A

Surge voltage load (surge)

Standards/regulations	EN 61000-4-5
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Surge voltage load (surge)

Input	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion A

Conducted interference

Standards/regulations	EN 61000-4-6
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Conducted interference

Input/output/signal	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A

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Voltage	10 V (Test Level 3)
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Emitted interference

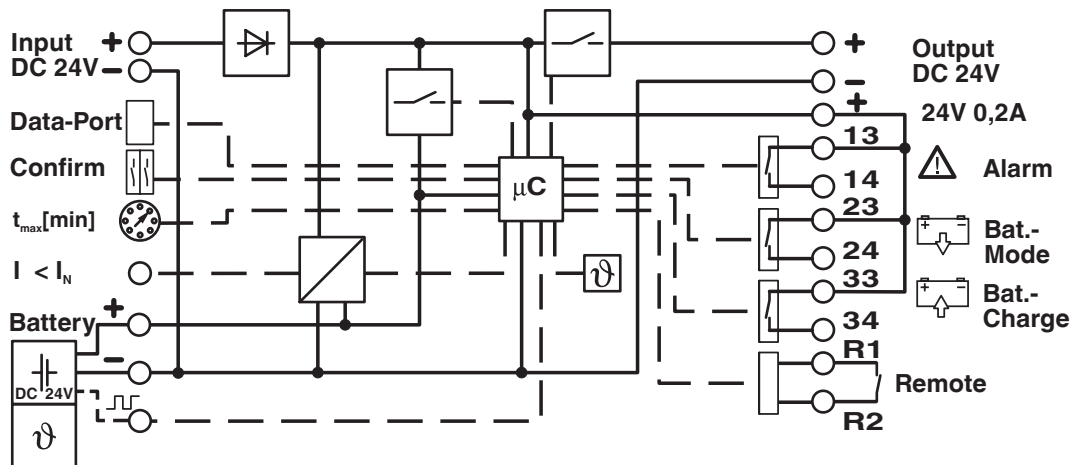
Standards/regulations	EN 61000-6-3
Radio interference voltage in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential
Emitted radio interference in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential

Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

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Block diagram

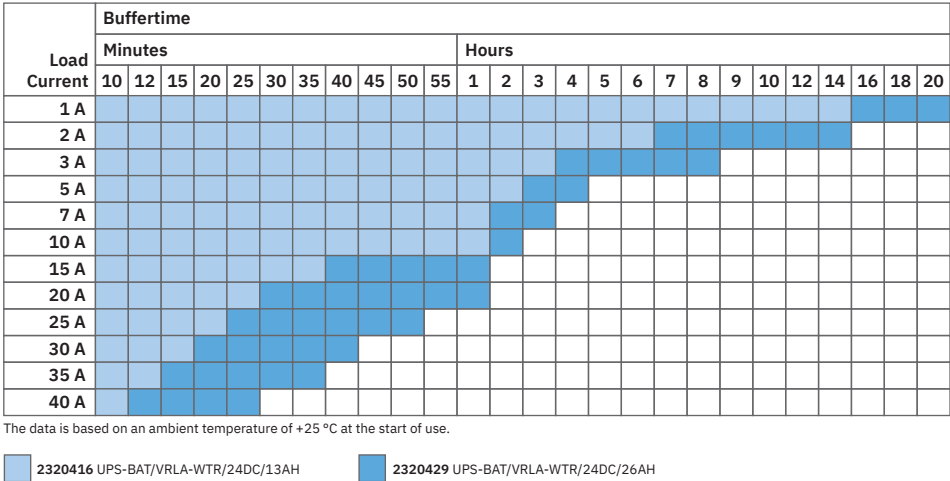
[illegible]

 1274520 UPS-BAT/PB/24DC/1.2AH	 1274119 UPS-BAT/PB/24DC/12AH	 1474660 UPS-BAT/PB/24DC/110AH
 1274117 UPS-BAT/PB/24DC/4AH	 1348516 UPS-BAT/PB/24DC/20AH	
 1274118 UPS-BAT/PB/24DC/7AH	 1354641 UPS-BAT/PB/24DC/40AH	

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Graphic



QUINT DC UPS buffer times and VRLA-WTR battery module

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Approvals

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cUL Recognized

Approval ID: E211944



UL Recognized

Approval ID: E211944



EAC

Approval ID: RU S-DE.BL08.W.00764



LR

Approval ID: LR22136091TA



BV

Approval ID: 41516/B0 BV



EAC

Approval ID: RU-DE.B.00184/20



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: FILE E 123528

ABS

Approval ID: 22-2244289-PDA

DNV

Approval ID: TAA0000265

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	41 A	-	- 6

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KC

Approval ID: R-R-PCK-2320238



IECEE CB Scheme

Approval ID: DE/PTZ/0049



cUL Listed

Approval ID: E199827



UL Listed

Approval ID: E199827

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Classifications

ECLASS

ECLASS-13.0	27040705
ECLASS-15.0	27040705

ETIM

ETIM 10.0	EC000382
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UNSPSC

UNSPSC 21.0	39121000
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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)
SCIP	3d2e4de9-bb88-463d-a2ac-33bbcaf2a571

EF3.1 Climate Change

CO2e kg	22.718 kg CO2e
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