

# Uninterruptible power supply - QUINT4-UPS/24DC/24DC/20

2907071

<https://www.phoenixcontact.com/gb/products/2907071>

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QUINT UPS with IQ Technology, for DIN rail mounting, input: 24 V DC, output: 24 V DC / 20 A, charging current: 5 A

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## Product Description

The intelligent QUINT UPS for integration into established industrial networks: your systems continue to be supplied with uninterrupted power, even in the event of a mains failure. The battery management system with IQ Technology and a powerful battery charger ensures superior system availability.

## Your advantages

- Easy integration into networks using PROFINET, EtherNet/IP, EtherCAT<sup>®</sup> and USB interfaces
- Evaluation of state of health (SOH) and state of charge (SOC), thanks to the intelligent battery management system (BMS)
- Automatic recognition of the battery capacities and technologies (VRLA-WTR, LI-ION)
- Monitoring of output current and voltage, as well as manual connection and disconnection of the system
- SFB Technology selectively trips standard miniature circuit breakers. Loads connected in parallel continue working.

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## Commercial Data

Item number	2907071
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMUI43
Product Key	CMUI43
Catalog Page	Page 325 (C-4-2019)
GTIN	4055626171272
Weight per Piece (including packing)	690.7 g
Weight per Piece (excluding packing)	624 g
Customs tariff number	85371091
Country of origin	CN

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## Technical Data

### Input data

Input voltage	24 V DC
Input voltage range	18 V DC ... 30 V DC
Electric strength, max.	35 V DC (Protected against polarity reversal)
Internal input fuse	no
Typical national grid voltage	24 V DC
Voltage type of supply voltage	DC
Inrush current	≤ 8 A (≤ 4 ms)
Reverse polarity protection	yes
Fixed backup threshold	22 V DC 30 V DC
Dynamic activation threshold	> 1 V / 100 ms
Switch-on time	max. 3 s
Switch-on time during battery operation (Bat.-Start)	8 s
Voltage drop, input/output	0.4 V DC
Current consumption $I_N$ ( $U_N$ , $I_{OUT} = I_N$ , $I_{charge} = 0$ )	20.1 A
Current consumption $I_{max}$ ( $U_N$ , $I_{OUT} = I_{Stat.Boost}$ , $I_{charge} = max$ )	31.4 A
Current consumption $I_{No-Load}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = 0$ )	50 mA
Current consumption $I_{charge}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = max$ )	6.1 A
Power consumption $P_N$ ( $U_N$ , $I_{OUT} = I_N$ , $I_{charge} = 0$ )	474 W
Power consumption $P_{max}$ ( $U_N$ , $I_{OUT} = I_{Stat.Boost}$ , $I_{charge} = max$ )	738 W
Power consumption $P_{No-Load}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = 0$ )	1.3 W
Power consumption $P_{charge}$ ( $U_N$ , $I_{OUT} = 0$ , $I_{charge} = max$ )	145 W

### Signal state Bat.-Start

Connection labeling	3.8 (+)
Channel	DI (digital input)
State	Bat.-Mode
State condition	Low level (30 ms)
Low signal	Input connected with SGnd (3.9) or Bat
High signal	Input not connected or connected with $>U_{Bat}$
Signal - state assignment	low - active
Reference potential	3.9 (SGnd, identical to 1.2, 2.2, 4.2)
LED status indicator	Yellow (Bat.-Mode)

### Signal state PS Boost

Connection labeling	3.7 (+)
Channel (configurable)	DI (digital input) default, AI (analog input)
State (configurable)	Charging current reduced
State condition	Low level
Low signal	Input connected with SGnd (3.9), <5 V DC or not connected
High signal	Input connected with 13 ... 30 V DC

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Signal - state assignment	low - active
Analog	4 mA ... 20 mA (Offset zero point)
Unit signal	1 (mA)
Load	390 Ω
Reference potential	3.9 (SGnd, identical to 1.2, 2.2, 4.2)

## Signal state Remote

Connection labeling	3.6 (+)
Channel	DI (digital input)
State (configurable)	Disconnection
State condition	Low level
Low signal	Input connected with SGnd (3.9) or <5 V DC
High signal	Input not connected or connected with 13 ... 30 V DC
Signal - state assignment	low - active
Reference potential	3.9 (SGnd, identical to 1.2, 2.2, 4.2)
LED status indicator	Green, flashing (DC OK)

## Output data

Efficiency	typ. 98 %
Number of outputs	1
Short-circuit-proof	yes
No-load proof	yes
Switch-over time	0 ms
UPS connection in parallel	no
UPS connection in series	no
Energy storage device connection in parallel	Yes, 5 (observe line protection)
Energy storage device connection in series	no

## Mains operation

Output voltage	24 V DC ( $U_{OUT} = U_{IN} - 0.4 \text{ V DC}$ )
Output voltage range	18 V DC ... 30 V DC ( $U_{OUT} = U_{IN} - 0.4 \text{ V DC}$ ) 18 V DC ... 32 V DC
Output current $I_N$	20 A
Static Boost ( $I_{Stat.Boost}$ )	25 A
Dynamic Boost ( $I_{Dyn.Boost}$ )	30 A (5 s)
Selective Fuse Breaking ( $I_{SFB}$ )	120 A (15 ms)
Output power $P_{OUT}$ ( $U_N, I_{OUT} = I_N$ )	480 W
Output power $P_{OUT}$ ( $U_N, I_{OUT} = I_{Stat.Boost}$ )	600 W
Output power $P_{OUT}$ ( $U_N, I_{OUT} = I_{Dyn.Boost}$ )	720 W (5 s)
Power dissipation No load ( $U_N, I_{Out} = 0, I_{Charge} = 0$ )	3 W
Power dissipation Nominal load ( $U_N, I_{Out} = I_N, I_{Charge} = 0$ )	10 W

## Battery operation

Output voltage	24 V DC ( $U_{OUT} = U_{BAT} - 0.4 \text{ V DC}$ )
Output voltage range	19 V DC ... 28 V DC ( $U_{OUT} = U_{BAT} - 0.4 \text{ V DC}$ )

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Output current $I_N$	20 A
Static Boost ( $I_{Stat.Boost}$ )	25 A
Dynamic Boost ( $I_{Dyn.Boost}$ )	30 A (5 s)
Selective Fuse Breaking ( $I_{SFB}$ )	120 A (15 ms)
Output power $P_{OUT}$ ( $U_N, I_{OUT} = I_N$ )	480 W
Output power $P_{OUT}$ ( $U_N, I_{OUT} = I_{stat.Boost}$ )	600 W
Output power $P_{OUT}$ ( $U_N, I_{OUT} = I_{dyn.Boost}$ )	720 W (5 s)
Power dissipation No load ( $U_N, I_{Out} = 0, I_{Charge} = 0$ )	2 W
Power dissipation Nominal load ( $U_N, I_{Out} = I_N, I_{Charge} = 0$ )	11 W

## Signal supply 24 V DC, 20 mA, SGnd

Connection labeling	3.1 (+), 3.9 (SGnd)
Output voltage	24 V DC
Output can be loaded	max. 20 mA
Reference potential	3.9 (SGnd, identical to 1.2, 2.2, 4.2)

## Signal state Alarm

Connection labeling	3.2, 3.3
Channel	DO (digital output)
Switching voltage	max. 30 V AC/DC
Switch contact (floating)	OptoMOS
State (configurable)	Group alarm
State condition (configurable)	Alarm threshold
Current carrying capacity	max. 100 mA
State - signal assignment	NC (Normally Closed)
LED status indicator	red (Alarm)

## Signal state Bat. mode

Connection labeling	3.4 (+)
Channel	DO (digital output)
Semiconductor output	MOSFET
State (configurable)	Bat.-Mode
State condition (configurable)	$U_{IN} < 18$ V DC, $U_{IN} > 30$ V DC, Bat.-Start
Output voltage	19 V DC ... 28 V DC (buffered)
Output can be loaded	max. 20 mA
State - signal assignment	active - high
Reference potential	3.9 (SGnd, identical to 1.2, 2.2, 4.2)
LED status indicator	Yellow (Bat.-Mode)

## Signal state Ready

Connection labeling	3.5 (+)
Channel	DO (digital output)
Semiconductor output	MOSFET
State (configurable)	Ready
State condition (configurable)	SOC = 100 %
Output voltage	19 V DC ... 28 V DC (buffered)

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Output can be loaded	max. 20 mA
State - signal assignment	active - high
Reference potential	3.9 (SGnd, identical to 1.2, 2.2, 4.2)
LED status indicator	Green (state of charge - SOC)

## Energy storage

Nominal voltage $U_N$	24 V DC
End-of-charge voltage (temperature-compensated)	25 V DC ... 32 V DC
End-of-charge voltage (configurable)	27.6 V DC
Charging current (configurable)	max. 5 A
Nominal capacity (without additional charger)	3 Ah ... 135 Ah
Max. capacity	135 Ah
Charging time	165 min. (12 Ah)
Buffer time	22 min. (12 Ah)
Deep discharge protection (configurable)	19.2 V DC
Battery technology	VRLA, VRLA-WTR, LI-ION
Charge characteristic curve	IU <sub>0</sub> U
IQ-Technology	yes
Temperature sensor	yes
Temperature compensation (configurable)	42 mV/K

## Connection data

### Input

Position	1.x
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### Conductor connection

Connection method	Screw connection
rigid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
rigid (AWG)	30 ... 10 (Cu)
Stripping length	8 mm (rigid/flexible)
Torque	0.5 Nm ... 0.6 Nm

### Output

Position	2.x
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### Conductor connection

Connection method	Screw connection
rigid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
flexible with ferrule with plastic sleeve	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
rigid (AWG)	30 ... 10 (Cu)

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Stripping length	8 mm (rigid/flexible)
Torque	0.5 Nm ... 0.6 Nm

## Signal

Position	3.x
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## Conductor connection

Connection method	Push-in connection
rigid	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
flexible	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
flexible with ferrule without plastic sleeve	0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
	0.5 mm <sup>2</sup> (recommended)
flexible with ferrule with plastic sleeve	0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
rigid (AWG)	24 ... 16 (Cu)
Stripping length	8 mm (rigid/flexible)

## LED signaling

Types of signaling	DC OK (green)
	Alarm (red)
	Bat.-Mode (yellow)
	SOC (red, green)
	Data (red, green)

## Product properties

Product type	Uninterruptible power supply
MTBF (IEC 61709, SN 29500)	> 1940000 h (25 °C)
	> 1157000 h (40 °C)
	> 568100 h (60 °C)
Environmental protection directive	RoHS Directive 2011/65/EU
	WEEE
	Reach

## Insulation characteristics

Protection class	III (without PE)
Degree of pollution	2

## Life expectancy (electrolytic capacitors)

Time	192072 h
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## Dimensions

Width	40 mm
Height	130 mm
Depth	125 mm

## Installation dimensions

Installation distance right/left (active)	5 mm / 5 mm (P <sub>Out</sub> ≥50% )
Installation distance right/left (passive)	0 mm / 0 mm (P <sub>Out</sub> ≥50% )

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Installation distance right/left (active, passive)	0 mm / 0 mm ( $P_{Out} \leq 50\%$ )
Installation distance top/bottom (active)	50 mm / 50 mm ( $P_{Out} \geq 50\%$ )
Installation distance top/bottom (passive)	40 mm / 20 mm ( $P_{Out} \geq 50\%$ )
Installation distance top/bottom (active, passive)	40 mm / 20 mm ( $P_{Out} \leq 50\%$ )

## Alternative assembly

Width	123 mm
Height	130 mm
Depth	42 mm

## Mounting

Mounting type	DIN rail mounting
Mounting position	On horizontal DIN rail NS 35/7.5 and NS 35/15 acc. to EN 60715

## Material specifications

Inflammability class in acc. with UL 94 (housing / terminal blocks)	V0
Housing material	Metal
Hood version	Stainless steel X6Cr17
Side element version	Aluminum AlMg3

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (start-up type tested)	-40 °C
Maximum altitude	≤ 4000 m
Climatic class	3K3 (EN 60721)
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	2.3g

## Standards and regulations

### Overvoltage category

EN 61010-1	II (≤ 4000 m)
EN 61010-2-201	II (≤ 4000 m)

### Protective extra-low voltage

Standards/specifications	IEC 61010-1 (SELV)
	IEC 61010-2-201 (PELV)

## Approval data

### UL approval

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Identification	UL/C-UL Listed UL 61010-1
UL approval	
Identification	UL/C-UL Listed UL 61010-2-201
UL approval	
Identification	UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)
CSA	
Identification	CAN/CSA-C22.2 No. 61010-1-12
CSA	
Identification	CAN/CSA-IEC 61010-2-201
CSA	
Identification	CAN/CSA-C22.2 No. 213 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)
CB scheme	
Identification	IEC 61010-1
	IEC 61010-2-201
DNV	
Identification	Class Guideline DNVGL-CG-0339
Note	Location classes: Temperature D (see Application/Limitation), Humidity B, Vibration A/C, EMC B

## EMC data

Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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
Interference emission	Noise emission according to EN 61000-6-3 (residential and commercial)
Noise emission	Additional basic standard EN 61000-6-5 (immunity in power station), IEC/EN 61850-3 (energy supply)
Noise immunity	Immunity according to EN 61000-6-1 (residential), EN 61000-6-2 (industrial), and EN 61000-6-5 (power station equipment zone), IEC/EN 61850-3 (energy supply)
	Immunity according to EN 61000-6-2 (industrial)

## 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)

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Comments	Criterion B
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz ... 1 GHz
Test field strength	20 V/m (Test Level 3)
Frequency range	1 GHz ... 6 GHz
Test field strength	10 V/m (Test Level 3)
Frequency range	1 GHz ... 6 GHz
Test field strength	10 V/m (Test Level 3)
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	4 kV (Test Level 4 - asymmetrical)
Output	4 kV (Test Level 4 - asymmetrical)
Signal	4 kV (Test Level 4 - asymmetrical)
Comments	Criterion B
Surge voltage load (surge)	
Standards/regulations	EN 61000-4-5
Input	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
I/O/S	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)
Power frequency magnetic field	
Standards/regulations	EN 61000-4-8
Frequency	16.67 Hz
	50 Hz
	60 Hz
Test field strength	100 A/m
Additional text	60 s

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Comments	Criterion A
Frequency	50 Hz
	60 Hz
Frequency range	50 Hz ... 60 Hz
Test field strength	1 kA/m
Additional text	3 s
Frequency	0 Hz
Test field strength	300 A/m
Additional text	DC, 60 s
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

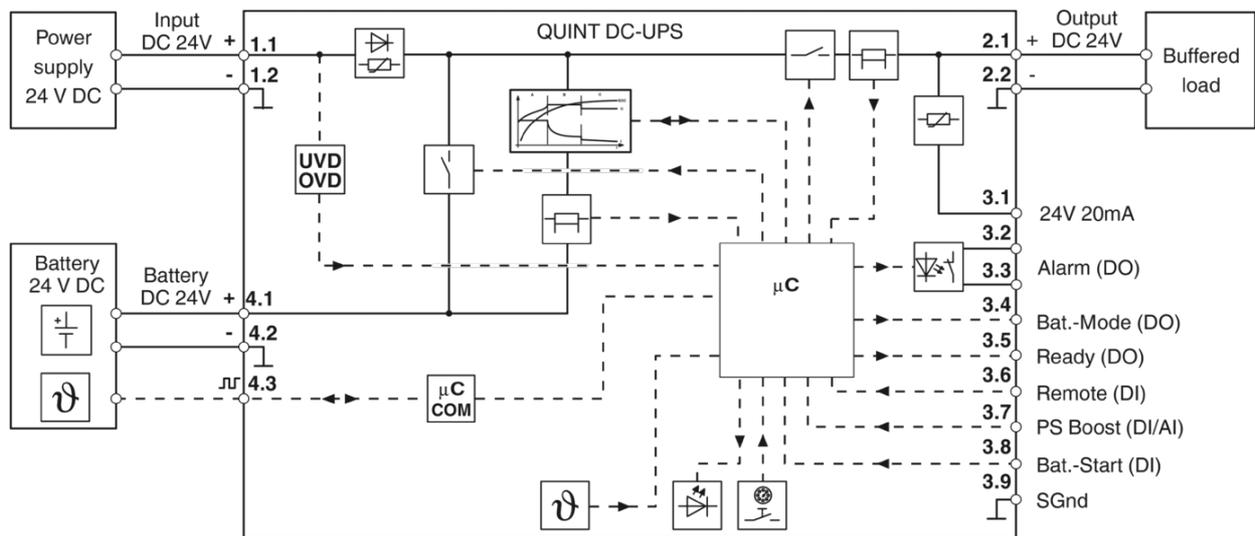
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## Drawings

Block diagram



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## Approvals

EAC

UL Listed

cUL Listed

DNV GL

EAC

cUL Listed

UL Listed

cULus Listed

cULus Listed

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## Classifications

### ECLASS

ECLASS-9.0	27040705
ECLASS-10.0.1	27040705
ECLASS-11.0	27040705

### ETIM

ETIM 8.0	EC000382
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### UNSPSC

UNSPSC 21.0	39121011
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## Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

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## Accessories

### Energy storage

Energy storage - UPS-BAT/PB/24DC/4AH - 1274117



Energy storage, VRLA-AGM, 24 V DC, 4 Ah, automatic detection and communication with QUINT UPS-IQ

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### Energy storage

Energy storage - UPS-BAT/PB/24DC/7AH - 1274118



Energy storage, VRLA-AGM, 24 V DC, 7 Ah, automatic detection and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/PB/24DC/12AH - 1274119



Energy storage, VRLA-AGM, 24 V DC, 12 Ah, automatic detection and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/VRLA/24DC/20AH - 1109004



Energy storage, lead AGM, VRLA technology, 24 V DC, 20 Ah, automatic detection and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/VRLA/24DC/3.4AH - 2320306



Energy storage device, lead AGM, VRLA technology, 24 V DC, 3.4 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/VRLA/24DC/7.2AH - 2320319



Energy storage device, lead AGM, VRLA technology, 24 V DC, 7.2 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/VRLA/24DC/12AH - 2320322



Please use the following item in new systems: 1274119.

Energy storage device, lead AGM, VRLA technology, 24 V DC, 12 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/VRLA/24DC/38AH - 2320335



Energy storage device, lead AGM, VRLA technology, 24 V DC, 38 Ah, automatic detection, and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/VRLA-WTR/24DC/13AH - 2320416



Energy storage device, lead AGM, VRLA technology, 24 V DC, 13 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/VRLA-WTR/24DC/26AH - 2320429



Energy storage device, lead AGM, VRLA technology, 24 V DC, 26 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/LI-ION/24DC/120WH - 2320351



Energy storage device, LI-ION technology, 24 V DC, 120 Wh, for ambient temperatures of -20°C ... 60°C, automatic detection and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/LI-ION/24DC/924WH - 2908232



Energy storage device, LI-ION technology, 24 V DC, 924 Wh, for ambient temperatures of -25 °C ... 60 °C, automatic detection and communication with QUINT UPS-IQ

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## Energy storage

Energy storage - UPS-BAT/PB/24DC/20AH - 1348516



Energy storage, VRLA-AGM, 24 V DC, 20 Ah, automatic detection and communication with QUINT UPS-IQ

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