

QUINT4-UPS/24DC/24DC/10/USB - Uninterruptible power supply



2907067

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QUINT UPS with IQ Technology, USB communication interface (Modbus/RTU), for DIN rail mounting, input: 24 V DC, output: 24 V DC / 10 A, charging current: 3 A

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® 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.

Commercial data

Item number	2907067
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM21
Product key	CMUI43
GTIN	4055626170091
Weight per piece (including packing)	524.3 g
Weight per piece (excluding packing)	450 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
	18 V DC ... 32 V DC
Electric strength, max.	35 V DC
Internal input fuse	no
Voltage type of supply voltage	DC
Inrush current	≤ 7 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 , $I_{OUT} = I_N$, $I_{charge} = 0$)	10.1 A
Current consumption I_{max} (U_N , $I_{OUT} = I_{Stat.Boost}$, $I_{charge} = max$)	16.3 A
Current consumption $I_{No-Load}$ (U_N , $I_{OUT} = 0$, $I_{charge} = 0$)	48 mA
Current consumption I_{charge} (U_N , $I_{OUT} = 0$, $I_{charge} = max$)	3.5 A
Power consumption P_N (U_N , $I_{OUT} = I_N$, $I_{charge} = 0$)	241 W
Power consumption P_{max} (U_N , $I_{OUT} = I_{Stat.Boost}$, $I_{charge} = max$)	384 W
Power consumption $P_{No-Load}$ (U_N , $I_{OUT} = 0$, $I_{charge} = 0$)	1.2 W
Power consumption P_{charge} (U_N , $I_{OUT} = 0$, $I_{charge} = max$)	90 W

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	yes, with decoupling modules (to increase the buffer time and for redundancy)
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 ($U_{OUT} = U_{IN} - 0.4$ V DC)
Output voltage range	18 V DC ... 30 V DC
	18 V DC ... 32 V DC

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Output current I_N	10 A
Static Boost ($I_{Stat.Boost}$)	12.5 A
Dynamic Boost ($I_{Dyn.Boost}$)	20 A (5 s)
Selective Fuse Breaking (I_{SFB})	60 A (15 ms)
Output power P_{OUT} ($U_N, I_{OUT} = I_N$)	240 W
Output power P_{OUT} ($U_N, I_{OUT} = I_{stat.Boost}$)	300 W
Output power P_{OUT} ($U_N, I_{OUT} = I_{dyn.Boost}$)	480 W (5 s)
Power dissipation No load ($U_N, I_{Out} = 0, I_{Charge} = 0$)	1 W
Power dissipation Nominal load ($U_N, I_{Out} = I_N, I_{Charge} = 0$)	6 W

Battery operation

Output voltage	24 V DC ($U_{OUT} = U_{BAT} - 0.4$ V DC)
Output voltage range	19 V DC ... 32 V DC
Output current I_N	10 A
Static Boost ($I_{Stat.Boost}$)	12.5 A
Selective Fuse Breaking (I_{SFB})	60 A (15 ms)
Output power P_{OUT} ($U_N, I_{OUT} = I_N$)	240 W
Output power P_{OUT} ($U_N, I_{OUT} = I_{stat.Boost}$)	300 W
Output power P_{OUT} ($U_N, I_{OUT} = I_{dyn.Boost}$)	480 W (5 s)

Energy storage

End-of-charge voltage	32 V DC
End-of-charge voltage (temperature-compensated)	25 V DC ... 32 V DC
Charging current (configurable)	3 A
Nominal capacity (without additional charger)	1.2 Ah ... 60 Ah
Max. capacity	80 Ah
Charging time	120 h
Buffer time	25 min (7.2 Ah)
Deep discharge protection	19.2 V DC
Battery technology	VRLA, VRLA-WTR, LI-ION
Charge characteristic curve	IU_0U
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 ² ... 2.5 mm ²
flexible	0.2 mm ² ... 2.5 mm ²

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flexible with ferrule without plastic sleeve	0.2 mm ² ... 2.5 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² ... 2.5 mm ²
rigid (AWG)	30 ... 12 (Cu)
Stripping length	6.5 mm (rigid/flexible)
Tightening torque	0.5 Nm ... 0.6 Nm
Drive form screw head	Slotted L

Output

Position	2.x
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Conductor connection

Connection method	Screw connection
rigid	0.2 mm ² ... 2.5 mm ²
flexible	0.2 mm ² ... 2.5 mm ²
flexible with ferrule without plastic sleeve	0.2 mm ² ... 2.5 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² ... 2.5 mm ²
rigid (AWG)	30 ... 12 (Cu)
Stripping length	6.5 mm (rigid/flexible)
Tightening torque	0.5 Nm ... 0.6 Nm
Drive form screw head	Slotted L

Signal

Position	3.x
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Conductor connection

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

Battery

Position	4.x
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Connection technology

Position marking	4.1 (+), 4.2 (-), 4.3 (⏏ )
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Conductor connection

Connection method	Screw connection
rigid	0.2 mm ² ... 2.5 mm ²
flexible	0.2 mm ² ... 2.5 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
flexible with ferrule with plastic sleeve	0.25 mm ² ... 2.5 mm ²

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rigid (AWG)	30 ... 12 (Cu)
Stripping length	6.5 mm (rigid/flexible)
Tightening torque	0.5 Nm ... 0.6 Nm
Drive form screw head	Slotted L

Interfaces

Communication

Slave address	192
Start bit	1
Data bits	8
Parity	even
Stop bit	1
Interface	USB
Number of interfaces	1
Connection method	MINI-USB Type B
Supported protocols	USB
Connection marking	X1
Locking	Screw
Transmission physics	USB 2.0
Topology	Point-to-point
Transmission speed	9600 baud ... 115200 baud (Default: 115200 baud)
Transmission length	max. 5 m
Access time	≤ 2 s
Chipset	Silicon Labs CP210x
Electrical isolation	Yes, UL approved

Signaling

LED signaling

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

Product properties

Product type	DC UPS
Product family	QUINT DC UPS
MTBF (IEC 61709, SN 29500)	> 1430000 h (25 °C)
	> 916900 h (40 °C)
	> 480100 h (60 °C)
Environmental protection directive	RoHS Directive 2011/65/EU
	WEEE

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	Reach
Insulation characteristics	
Protection class	III (without PE)
Overvoltage category (EN 61010-1)	II (≤ 4000 m)
Overvoltage category (IEC 61010-2-201)	II (≤ 4000 m)
Degree of pollution	2
Life expectancy (electrolytic capacitors)	
Time	137895 h

Dimensions

Item dimensions

Width	35 mm
Height	130 mm
Depth	125 mm
Depth (Device depth (DIN rail mounting))	125 mm (Device depth (DIN rail mounting))

Item dimensions with alternative mounting

Width	123 mm
Height	130 mm
Depth	37 mm

Installation dimensions

Installation distance right/left (active)	5 mm / 5 mm ($P_{Out} \geq 50\%$)
Installation distance right/left (passive)	0 mm / 0 mm ($P_{Out} \geq 50\%$)
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 ($P_{Out} \leq 50\%$)

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

Flammability rating according to 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

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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

Protective extra-low voltage

Standard designation	Protective extra-low voltage
Standards/specifications	IEC 61010-1 (SELV)
	IEC 61010-2-201 (PELV)

Approvals

UL approval

Identification	UL/C-UL Listed UL 61010-1
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UL approval

Identification	UL/C-UL Listed UL 61010-2-201
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UL approval

Identification	UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)
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CSA

Identification	CAN/CSA-C22.2 No. 61010-1-12
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CSA

Identification	CAN/CSA-IEC 61010-2-201
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CSA

Identification	CAN/CSA-C22.2 No. 213 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)
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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

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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
Noise immunity	Immunity in accordance with EN 61000-6-1 (residential), EN 61000-6-2 (industrial), and EN 61000-6-5 (switching devices), IEC/EN 61850-3 (power supply)

Noise emission

Standards/regulations	Additional basic standard EN 61000-6-5 (immunity in switching devices), IEC/EN 61850-3 (power supply)
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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 B

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 (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
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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
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Surge voltage load (surge)

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
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Conducted interference

Input/output/signal	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
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

Criteria

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

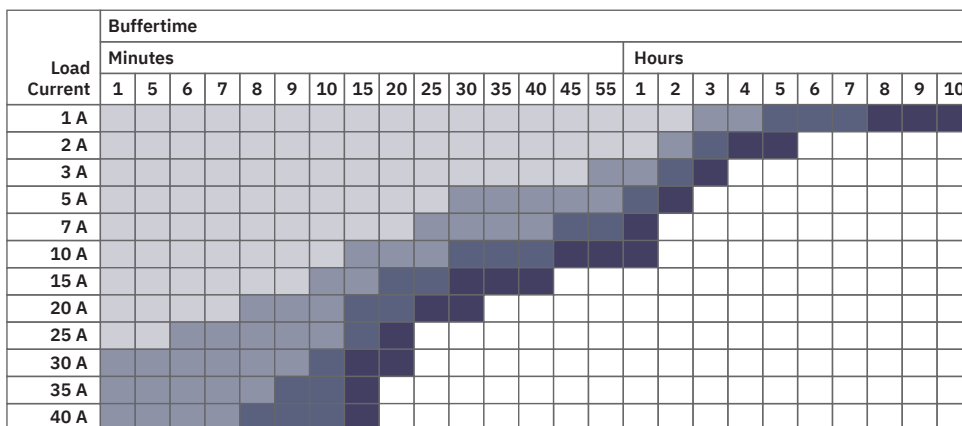
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Graphic

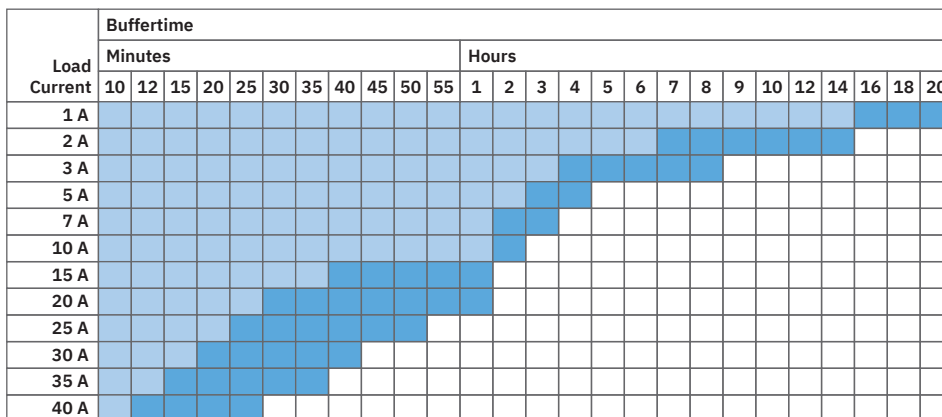


The data is based on an ambient temperature of +25 °C at the start of use.



QUINT DC UPS buffer times for LI battery module

Graphic



The data is based on an ambient temperature of +25 °C at the start of use.



QUINT DC UPS buffer times and VRLA-WTR battery module

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Approvals

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EAC

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



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: E123528



EAC

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

DNV

Approval ID: TAA00001YD



KC

Approval ID: R-R-PCK-2907067



LR

Approval ID: LR21417906TA-01



NK

Approval ID: TA22372M



BV

Approval ID: 69394/A1 BV



RINA

Approval ID: ELE382621XG

ABS

Approval ID: 23-2416092-PDA

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IECEE CB Scheme

Approval ID: DK-68191-M1-UL



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.)	Diboron trioxide(CAS: 1303-86-2)
	Lead(CAS: 7439-92-1)
SCIP	cf3d1c91-2031-4466-9d44-1bc201342b47

EF3.1 Climate Change

CO2e kg	18.89 kg CO2e
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