QUINT4-UPS/24DC/24DC/5 - Uninterruptible power supply



2906990

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QUINT USV, IQ Technology, DIN rail mounting, Screw connection, input: 24 V DC, output: 24 V DC / 5 A, charging current: 1.5 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	2906990
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMU
Product Key	CMUI43
Catalog Page	Page 324 (C-4-2019)
GTIN	4055626171227
Weight per Piece (including packing)	507.4 g
Weight per Piece (excluding packing)	440 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	≤ 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 (BatStart)	8 s
Voltage drop, input/output	0.3 V DC
Current consumption $I_N (U_N, I_{OUT} = I_N, I_{charge} = 0)$	5.1 A
Current consumption I_{max} (U_{N} , $I_{OUT} = I_{Stat.Boost}$, $I_{charge = max}$)	8.3 A
Current consumption $I_{No-Load}(U_N, I_{OUT} = 0, I_{charge} = 0)$	45 mA
Current consumption I_{charge} (U_{N} , $I_{OUT} = 0$, $I_{charge} = max$)	1.8 A
Power consumption $P_N (U_N, I_{OUT} = I_N, I_{charge} = 0)$	121 W
Power consumption P_{max} (U_{N} , $I_{OUT} = I_{Stat.Boost}$, $I_{charge} = max$)	211 W
Power consumption $P_{No-Load}$ (U _N , I _{OUT} = 0, I _{charge} = 0)	1.1 W
Power consumption P_{charge} (U_N , $I_{OUT} = 0$, $I_{charge} = max$)	43 W

Connection labeling	3.8 (+)
Channel	DI (digital input)
State	BatMode
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 (BatMode)

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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gnal - state assignment	low - active
nalog	4 mA 20 mA (Offset zero point)
Init signal	I (mA)
oad	390 Ω
Reference potential	3.9 (SGnd, identical to 1.2, 2.2, 4.2)
nal state Remote	
Connection labeling	3.6 (+)
Channel	DI (digital input)
state (configurable)	Disconnection
itate condition	Low level
ow signal	Input connected with SGnd (3.9) or <5 V DC
ligh 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)
ED status indicator	Green, flashing (DC OK)
4 4-4-	
ut data	
fficiency	typ. 98 %
lumber of outputs	1
hort-circuit-proof	yes
lo-load proof	yes
switch-over time	0 ms
IPS connection in parallel	no
JPS connection in series	no
nergy storage device connection in parallel	Yes, 5 (observe line protection)
nergy storage device connection in series	no
ns operation	
Output voltage	24 V DC (U _{OUT} = U _{IN} - 0.3 V DC)
Output voltage range	18 V DC 30 V DC (U _{Out} = U _{In} - 0.3 V DC)
	18 V DC 32 V DC (U _{Out} = U _{In} - 0.3 V DC)
Output current I _N	5 A
static Boost (I _{Stat.Boost})	6.25 A
Oynamic Boost (I _{Dyn.Boost})	10 A (5 s)
selective Fuse Breaking (I _{SFB})	30 A (15 ms)
Output power $P_{OUT}(U_N, I_{OUT} = I_N)$	120 W
Output power P _{OUT} (U _N , I _{OUT} = I _{stat.Boost})	150 W
Output power P _{OUT} (U _N , I _{OUT} = I _{dyn.Boost})	240 W (5 s)
Power dissipation No load (U _N , I _{Out} = 0, I _{Charge} = 0)	3 W
Power dissipation Nominal load (U_N , $I_{Out} = I_N$, $I_{Charge} = 0$)	4 W
ery operation	
ery operation Output voltage	24 V DC (U _{OUT} = U _{BAT} - 0.3 V DC)