Uninterruptible power supply - QUINT-UPS/ 24DC/12DC/5/24DC/10 - 2320461

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Uninterruptible power supply with IQ technology for DIN rail mounting, input: 24 V DC, output: 24 V DC/10 A and 12 V DC/5 A, including mounted universal DIN rail adapter UTA 107/30

Product Features

- Easy handling thanks to automatic battery detection, tool-free battery replacement during operation, and communication via the IFS interface
- Reliable starting of difficult loads with the static POWER BOOST power reserve with up to 1.5 times the nominal current permanently
- Fast tripping of standard circuit breakers with SFB (selective fuse breaking) technology
- Device suitable for universal use thanks to comprehensive license package and extensive parameterization and diagnostics options
- One UPS module - two voltages
- Maximum flexibility, thanks to the dual output

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	760.0 GRM
Custom tariff number	85371091
Country of origin	China

Technical data

Dimensions

Width	35 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	123 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	39 mm

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Technical data

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (25°C, non-condensing)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage	24 V DC
Nominal input voltage range	18 V DC ... 30 V DC
Input voltage range	18 V DC ... 30 V DC
Current consumption (maximum)	16 A (Maximum, mains operation)
Current consumption (idle)	104 mA (No load, mains operation)
Current consumption (charging process)	4 A (Charging, mains operation)
Buffer period	3 h (With battery module 38 AH)
Choice of suitable fuses	16 A ... 20 A (Characteristic B)

Output data (24 V DC mains operation)

Nominal output voltage	24 V DC
Output voltage range (depends on the input voltage)	18 V DC ... 30 V DC (U_{OUT} = U_{IN} - 0.5 V DC)
Nominal output current IN	10 A (-25 °C ... 60 °C)
SFB technology current reserve	60 A (-25 °C ... 60 °C)
POWER BOOST	15 A (-25 °C ... 40 °C)

Output data (12 V DC mains operation)

Nominal output voltage	12 V DC
Nominal output current IN	5 A (-25 °C ... 60 °C)
POWER BOOST	7.5 A (-25 °C ... 40 °C)

Output data (24 V DC battery operation)

Nominal output voltage	24 V DC
Output voltage range (depends on the input voltage)	19.2 V DC ... 27.6 V DC (U_{OUT} = U_{BAT} - 0.5 V DC)
Nominal output current IN	10 A (-25 °C ... 60 °C)
SFB technology current reserve	65 A (-25 °C ... 60 °C)
POWER BOOST	15 A (-25 °C ... 60 °C)

Output data (12 V DC battery operation)

Nominal output voltage	12 V DC
Nominal output current IN	5 A (-25 °C ... 60 °C)
POWER BOOST	7.5 A (-25 °C ... 60 °C)

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Technical data

General output data

Total power P_{12V} + P_{24V}	max. 360 W
Efficiency 12 V DC	> 93 % (Mains operation, with charged power storage)
Efficiency 24 V DC	> 98 % (Mains operation, with charged power storage)

General

IQ technology	Yes
Net weight	0.6 kg
Protection class	III
	> 652000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: horizontal 5 mm, vertical 50 mm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950

Connection data, input

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M4

Connection data, output

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	12

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Technical data

Connection data, output

Stripping length	7 mm
Screw thread	M4

Signaling

Signalization designation	Power In OK
Status display	LED
Note on status display	Static to
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M4
Signalization designation	Alarm
Output name	Switching output
Output description	Relay (floating)
Maximum switching voltage	≤ 30 V AC/DC
Continuous load current	≤ 100 mA
Status display	LED
Note on status display	Static to
Signalization designation	Battery charge
Output name	Switching output
Output description	Relay (floating)
Maximum switching voltage	≤ 30 V AC/DC
Output voltage	24 V
Continuous load current	≤ 100 mA
Status display	LED bar graph
Note on status display	dynamic
Signalization designation	Battery mode
Output name	Switching output
Output description	Relay (floating)
Type of signaling	Battery mode
Maximum switching voltage	≤ 30 V AC/DC

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Technical data

Signaling

Output voltage	24 V
Continuous load current	≤ 100 mA
Status display	LED
Note on status display	Static to

Classifications

eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040603
eCl@ss 5.0	27040603
eCl@ss 5.1	27040603
eCl@ss 6.0	27040603
eCl@ss 7.0	27040603
eCl@ss 8.0	27049201

ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000382
ETIM 5.0	EC000382

UNSPSC

UNSPSC 6.01	30211510
UNSPSC 7.0901	39121011
UNSPSC 11	39121011
UNSPSC 12.01	39121011
UNSPSC 13.2	39121011

Approvals

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UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / cULus Recognized / cULus Listed

Ex Approvals

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Approvals

Approvals submitted

Approval details

UL Recognized

UL Listed

cUL Recognized

cUL Listed

EAC

cULus Recognized

cULus Listed

Drawings

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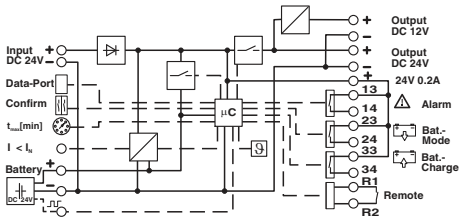
Block diagram



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