

# Capacity module - QUINT4-CAP/24DC/10/8KJ - 2320571

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QUINT capacity module with maintenance-free double-layer capacitor-based energy storage for DIN rail mounting, input: 24 V DC, output: 24 V DC/10 A/8 KJ including mounted UTA 107 universal DIN rail adapter. U<sub>in</sub>OK preset to battery operation.

## Product Description


The maintenance-free QUINT CAP capacity module is ideal for cyclical failures lasting up to 30 seconds. It combines an electronic switch-over unit and maintenance-free, capacitor-based energy storage in the same housing. The USB interface makes it convenient to shut down your PC.

## Why buy this product

- Convenient shutdown of PCs
- Maintenance-free with a long service life
- Space savings, thanks to the compact design
- Long buffer time, thanks to high memory capacity
- Lockable USB interface for connecting to industrial PCs, for example



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 246901
GTIN	4055626246901

## Technical data

### Dimensions

Width	118 mm
Height	130 mm
Depth	125 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (> 40 °C Derating: 1 %/K)
Ambient temperature (start-up type tested)	-40 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °C

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## Technical data

### Ambient conditions

Max. permissible relative humidity (operation)	≤ 95 %
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2
Installation height	≤ 4000 m

### Input data

Input voltage	24 V DC (SELV)
Input voltage range	22.5 V DC ... 30 V DC
Current consumption (maximum)	13.5 A (max.)
Current consumption (idle)	0.1 A (No-load)
Current consumption (charging process)	1 A (charging process)
Fixed connect threshold	< 22 V DC

### Output data

Nominal output voltage	24 V DC
Nominal output current (I <sub>N</sub> )	10 A
Static Boost (I <sub>Stat.Boost</sub> )	12.5 A
Connection in parallel	no
Connection in series	No
Power loss nominal load max.	< 6 W

### General

IQ technology	no
Net weight	1.6 kg
Memory medium	Dual layer capacitor
Efficiency	> 97 % (with charged energy storage device)
Protection class	Special application (SELV input voltage, hazardous voltages are generated in the device).
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	1387186 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm

### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	30
Conductor cross section AWG max.	12
Stripping length	6.5 mm

### Connection data, output

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### Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	30
Conductor cross section AWG max.	12
Stripping length	6.5 mm

### Signaling

Signalization designation	U <sub>In</sub> OK
Output name	Electronic relay (photorelay)
Output description	floating 13/14
Maximum switching voltage	30 V DC
Continuous load current	200 mA
Status display	LED
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Signalization designation	Ready
Output name	Transistor output, active
Output voltage	24 V (U <sub>N</sub> - 1 V (typical))
Continuous load current	20 mA
Status display	LED
Signalization designation	Alarm
Output name	Transistor output, active
Output voltage	24 V (U <sub>N</sub> - 1 V (typical))
Continuous load current	20 mA
Status display	LED
Signalization designation	Reference potential for Ready, alarm and remote

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Standards/regulations	EN 61000-4-2
Contact discharge	4 kV (Test Level 2)
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 1 GHz
Test field strength	10 V/m
Standards/regulations	EN 61000-4-6

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## Technical data

### Standards and Regulations

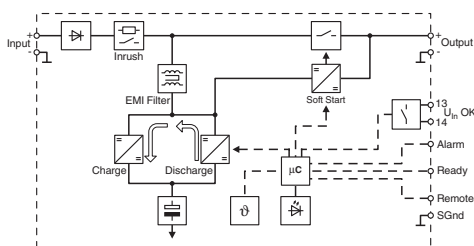
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Standard - Electrical safety	IEC 60950-1/VDE 0805 (SELV)
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950-1
Overvoltage category (EN 60950-1)	I

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Block diagram



## Approvals

### Approvals

### Approvals

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

### Ex Approvals

### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
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UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
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