

## Energy storage - UPS-CAP/24DC/20A/20KJ - 2320380

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Maintenance-free energy storage based on double-layer capacitor, 24 V DC, 20 kJ, automatic detection and communication with QUINT UPS-IQ

### Product Description

For continuous monitoring and intelligent management, there is constant communication with the QUINT UPS. Thanks to automatic detection of the energy storage, and tool-free switching during operation, quick installation is possible. The QUINT UPS with IQ technology energy storage leaves the warehouse fully charged.

### Why buy this product

- Maximum service life
- Maintenance-free double layer condensators



### Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4046356599030

### Technical data

#### Dimensions

Width	150 mm
Height	130 mm
Depth	176 mm

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °C
Max. permissible relative humidity (operation)	≤ 95 %
Degree of pollution	2
Installation height	2000 m

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## Technical data

### Input data

Nominal input voltage	24 V DC
Input voltage range	18 V DC ... 30 V DC
Current consumption	5 A
Buffer period	12 min. (1 A)
	33 s (20 A)

### Output data

Nominal output voltage	24 V DC
Setting range of the output voltage ( $U_{Set}$ )	22 V DC ... 27 V DC
Nominal output current ( $I_N$ )	20 A
POWER BOOST ( $I_{Boost}$ )	26 A
Connection in series	No
Power loss nominal load max.	3.6 W
Output fuse	2x 25 A (internal)

### General

IQ technology	Yes
Disposal	Used batteries must not be thrown away with household waste, they should instead be disposed of in accordance with applicable national regulations. They can also be returned to Phoenix Contact or the manufacturer.
Net weight	2.9 kg
Memory medium	Dual layer capacitor
Protection class	III
Degree of protection	IP20
	> 695000 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715

### Standards and Regulations

Connection in acc. with standard	CUL
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)
Shipbuilding approval	GL applied for
UL approvals	UL/C-UL Recognized UL 60950-1
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude $\pm 2.5$ mm, 15 ... 150 Hz, 2.3g/2.3g according to IEC 60068-2-6
	15 Hz ... 150 Hz, 2.3g, 90 min.

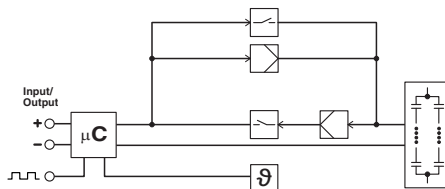
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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### Drawings

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Block diagram



## Approvals

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#### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / ABS / DNV GL / BV / LR / cULus Recognized / cULus Listed

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

### 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
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
cUL 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
cUL 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
EAC			EAC-Zulassung
ABS		<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	15-GD1438179-PDA


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### Approvals

DNV GL	<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	61457-13 HH
Nominal voltage UN	500 V	
Nominal current IN	41 A	
mm <sup>2</sup> /AWG/kcmil	6	

BV		<a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a>	41516/A0 BV
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LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	17/20032
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cULus 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>
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cULus Listed
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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>