



### SITOP BATTERY MODULE/24V/12AH

SITOP battery module 24 V/12 Ah with maintenance free sealed lead batteries for SITOP DC UPS module 6 A, 15 A and 40 A \*Ex approval no longer available\*

Charging current charging voltage	
end-of-charge voltage at DC	
<ul style="list-style-type: none"> <li>at -10 °C recommended</li> </ul>	29 V
<ul style="list-style-type: none"> <li>at 0 °C recommended</li> </ul>	28.4 V
<ul style="list-style-type: none"> <li>at 10 °C recommended</li> </ul>	27.8 V
<ul style="list-style-type: none"> <li>at 20 °C recommended</li> </ul>	27.3 V
<ul style="list-style-type: none"> <li>at 30 °C recommended</li> </ul>	26.8 V
<ul style="list-style-type: none"> <li>at 40 °C recommended</li> </ul>	26.6 V
<ul style="list-style-type: none"> <li>at 50 °C recommended</li> </ul>	26.3 V
Output	
charging current maximum	3 A
output voltage at DC rated value	24 V
Safety	
design of short-circuit protection	Battery fuse 20 A/32 V (solid-state circuitry blade-type fuse + support)
design of the overload protection	Valve control
Safety	
operating resource protection class	Class III
protection class IP	IP00
Approvals	
certificate of suitability	
<ul style="list-style-type: none"> <li>CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>UL approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>as approval for USA</li> </ul>	cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627
<ul style="list-style-type: none"> <li>cCSAus, Class 1, Division 2</li> </ul>	No
<ul style="list-style-type: none"> <li>ATEX</li> </ul>	No
certificate of suitability	
<ul style="list-style-type: none"> <li>EAC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>shipbuilding approval</li> </ul>	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DNV GL</li> </ul>	Yes
environmental conditions	
Operating data note	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-15 ... +50 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-20 ... +50 °C

• during storage  
relative temporary capacity loss at 20 °C in a month  
typical

-20 ... +50 °C  
3 %

### Service life

service life of energy storage

- typical
- at 20 °C typical
- at 30 °C typical
- at 40 °C typical
- at 50 °C typical

ambient temperature during storage

capacity falls to 80 % of original capacity (according to EUROBAT)  
4 a  
2 a  
1 a  
0.5 a

Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.

### Mechanics

type of electrical connection

- for power supply unit

product component included

width of the enclosure

height of the enclosure

depth of the enclosure

installation width

mounting height

fastening method

- wall mounting
- standard rail mounting
- S7 rail mounting

fastening method

net weight

number of cells

battery capacity

other information

spring-loaded terminals

1 screw terminal each for 0.08 ... 4 mm<sup>2</sup> for + BAT and - BAT

Accessories pack with solid-state circuitry fuse 20 A and 30 A

253 mm

168 mm

121 mm

273 mm

188 mm

Yes

No

No

can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)

9 kg

12

12 A·h

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

