

### 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
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-20 ... +50 °C

relative temporary capacity loss at 20 °C in a month typical	3 %
<b>Service life</b>	
service life of energy storage	capacity falls to 80 % of original capacity (according to EUROBAT)
• typical	4 a
• at 20 °C typical	2 a
• at 30 °C typical	1 a
• at 40 °C typical	0.5 a
• at 50 °C typical	
ambient temperature during storage	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.
<b>Mechanics</b>	
type of electrical connection	spring-loaded terminals
• for power supply unit	1 screw terminal each for 0.08 ... 4 mm <sup>2</sup> for + BAT and - BAT
product component included	Accessories pack with solid-state circuitry fuse 20 A and 30 A
width of the enclosure	253 mm
height of the enclosure	168 mm
depth of the enclosure	121 mm
installation width	273 mm
mounting height	188 mm
fastening method	
• wall mounting	Yes
• standard rail mounting	No
• S7 rail mounting	No
fastening method	can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)
net weight	9 kg
number of cells	12
battery capacity	12 A·h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

