

### 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> <li>at 0 °C recommended</li> <li>at 10 °C recommended</li> <li>at 20 °C recommended</li> <li>at 30 °C recommended</li> <li>at 40 °C recommended</li> <li>at 50 °C recommended</li> </ul> | 29 V<br>28.4 V<br>27.8 V<br>27.3 V<br>26.8 V<br>26.6 V<br>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> <li>UL approval</li> <li>as approval for USA</li> <li>cCSAus, Class 1, Division 2</li> <li>ATEX</li> </ul>  | Yes<br>Yes<br>cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627<br>No<br>No  |
| certificate of suitability   |  |
| <ul style="list-style-type: none"> <li>EAC approval</li> <li>shipbuilding approval</li> </ul>  | Yes<br>Yes   |
| shipbuilding approval  | ABS, DNV GL  |
| Marine classification association  |  |
| <ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>DNV GL</li> </ul>  | Yes<br>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> <li>during transport</li> <li>during storage</li> </ul>   | -15 ... +50 °C<br>-20 ... +50 °C<br>-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)   |



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