

SITOP UPS1100/BATTERY MODULE/24V/2.5AH



SITOP UPS1100 Battery module with warning not closed Lead batteries for SITOP DC-USV Modules; DC 24 V 2.5 Ah

| Charging current charging voltage                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                              |
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| 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> <li>• at 60 °C recommended</li> </ul> | <ul style="list-style-type: none"> <li>28 V</li> <li>28 V</li> <li>27.8 V</li> <li>27.3 V</li> <li>26.8 V</li> <li>26.6 V</li> <li>26.3 V</li> <li>26 V</li> </ul>                                                                                                                                           |
| Output                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                              |
| Rated current value I <sub>out</sub> rated                                                                                                                                                                                                                                                               | 20 A                                                                                                                                                                                                                                                                                                         |
| Permissible charging current, max.                                                                                                                                                                                                                                                                       | 5 A                                                                                                                                                                                                                                                                                                          |
| Rated voltage V <sub>out</sub> DC                                                                                                                                                                                                                                                                        | 24 V                                                                                                                                                                                                                                                                                                         |
| Safety                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                              |
| Short-circuit protection                                                                                                                                                                                                                                                                                 | Battery fuse 25 A/32 V (solid-state circuitry blade-type fuse + support)                                                                                                                                                                                                                                     |
| design of the overload protection                                                                                                                                                                                                                                                                        | Valve control                                                                                                                                                                                                                                                                                                |
| Status display                                                                                                                                                                                                                                                                                           | LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication                                                                                                                                                                                                                           |
| Safety                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                              |
| Protection class                                                                                                                                                                                                                                                                                         | Class III                                                                                                                                                                                                                                                                                                    |
| Degree of protection (EN 60529)                                                                                                                                                                                                                                                                          | IP20                                                                                                                                                                                                                                                                                                         |
| Approvals                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                              |
| CE mark                                                                                                                                                                                                                                                                                                  | Yes                                                                                                                                                                                                                                                                                                          |
| UL/cUL (CSA) approval                                                                                                                                                                                                                                                                                    | cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627                                                                                                                                                                                                                                                |
| Explosion protection                                                                                                                                                                                                                                                                                     | IECEX Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4                                                                                                                                                                                           |
| Approvals                                                                                                                                                                                                                                                                                                | Yes                                                                                                                                                                                                                                                                                                          |
| Marine approval                                                                                                                                                                                                                                                                                          | ABS, DNV GL                                                                                                                                                                                                                                                                                                  |
| 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. |

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| ambient temperature                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>                                                                             | <p>-40 ... +60 °C</p> <p>-40 ... +60 °C</p> <p>-40 ... +60 °C</p>                                                                                                                                                                                                                                                                       |
| relative temporary capacity loss at 20 °C in a month typical                                                                                                                                     | 3 %                                                                                                                                                                                                                                                                                                                                     |
| <b>Service life</b>                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                         |
| service life of energy storage                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>typical note</li> <li>at 20 °C typical</li> <li>at 30 °C typical</li> <li>at 40 °C typical</li> <li>at 50 °C typical</li> <li>at 60 °C typical</li> </ul> | <p>capacity falls to 80 % of original capacity (according to EUROBAT)</p> <p>10 y</p> <p>7 y</p> <p>3 y</p> <p>1.5 y</p> <p>1 y</p>                                                                                                                                                                                                     |
| ambient temperature during storage note                                                                                                                                                          | 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>                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                         |
| Connection technology                                                                                                                                                                            | screw-type terminals                                                                                                                                                                                                                                                                                                                    |
| Connection for power supply unit                                                                                                                                                                 | 1 screw terminal each for 0.2 ... 6 mm <sup>2</sup> for + BAT and - BAT                                                                                                                                                                                                                                                                 |
| type of electrical connection for control circuit and status message                                                                                                                             | 1 screw terminal each for 0.14 ... 4 mm <sup>2</sup>                                                                                                                                                                                                                                                                                    |
| product component included                                                                                                                                                                       | Accessories pack with solid-state circuitry fuse 25 A                                                                                                                                                                                                                                                                                   |
| width of the enclosure                                                                                                                                                                           | 265 mm                                                                                                                                                                                                                                                                                                                                  |
| height of the enclosure                                                                                                                                                                          | 115 mm                                                                                                                                                                                                                                                                                                                                  |
| depth of the enclosure                                                                                                                                                                           | 76 mm                                                                                                                                                                                                                                                                                                                                   |
| installation width                                                                                                                                                                               | 265 mm                                                                                                                                                                                                                                                                                                                                  |
| Installation height                                                                                                                                                                              | 130 mm                                                                                                                                                                                                                                                                                                                                  |
| required spacing                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>                                                                                               | <p>15 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p>                                                                                                                                                                                                                                                                                        |
| fastening method                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>wall mounting</li> <li>standard rail mounting</li> <li>S7 rail mounting</li> </ul>                                                                        | <p>Yes</p> <p>Yes</p> <p>No</p>                                                                                                                                                                                                                                                                                                         |
| Installation                                                                                                                                                                                     | snaps onto DIN rail EN 60715 35x7.5/15 or keyhole mounting for hooking in to M4 screws                                                                                                                                                                                                                                                  |
| Weight, approx.                                                                                                                                                                                  | 3.7 kg                                                                                                                                                                                                                                                                                                                                  |
| number of cells                                                                                                                                                                                  | 12                                                                                                                                                                                                                                                                                                                                      |
| Battery                                                                                                                                                                                          | 2.5 A·h                                                                                                                                                                                                                                                                                                                                 |
| other information                                                                                                                                                                                | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)                                                                                                                                                                                                                                       |

