

SITOP UPS1100/BATTERY MODULE/24V/2.5AH

SITOP UPS1100 battery module with maintenance- free sealed Lead batteries for SITOP DC UPS module 24 V DC 2.5 Ah *Ex approval no longer available*



Charging current charging voltage

end-of-charge voltage at DC

| | |
|-------------------------|--------|
| • at -10 °C recommended | 28 V |
| • at 0 °C recommended | 28 V |
| • at 10 °C recommended | 27.8 V |
| • at 20 °C recommended | 27.3 V |
| • at 30 °C recommended | 26.8 V |
| • at 40 °C recommended | 26.6 V |
| • at 50 °C recommended | 26.3 V |
| • at 60 °C recommended | 26 V |

Output

| | |
|----------------------------------|------|
| output current rated value | 20 A |
| charging current maximum | 5 A |
| output voltage at DC rated value | 24 V |

Safety

| | |
|--------------------------------------|--|
| design of short-circuit protection | Battery fuse 25 A/32 V (solid-state circuitry blade-type fuse + support) |
| design of the overload protection | Valve control |
| display version for normal operation | LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication |

Safety

| | |
|-------------------------------------|-----------|
| operating resource protection class | Class III |
| protection class IP | IP20 |

Approvals

| | |
|---|---|
| certificate of suitability | |
| • CE marking | Yes |
| • UL approval | Yes |
| • as approval for USA | cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627 |
| • CSA approval | No |
| • cCSAus, Class 1, Division 2 | No |
| • ATEX | No |
| certificate of suitability | |
| • EAC approval | Yes |
| • C-Tick | Yes |
| • shipbuilding approval | Yes |
| shipbuilding approval | ABS, DNV GL |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • DNV GL | 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 | |
| • during operation | -40 ... +60 °C |
| • during transport | -40 ... +60 °C |
| • during storage | -40 ... +60 °C |
| relative temporary capacity loss at 20 °C in a month typical | 3 % |
| Service life | |
| service life of energy storage | |
| • typical | capacity falls to 80 % of original capacity (according to EUROBAT) |
| • at 20 °C typical | 10 a |
| • at 30 °C typical | 7 a |
| • at 40 °C typical | 3 a |
| • at 50 °C typical | 1.5 a |
| • at 60 °C typical | 1 a |
| 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. |
| Mechanics | |
| type of electrical connection | screw-type terminals |
| • for power supply unit | 1 screw terminal each for 0.2 ... 6 mm ² for + BAT and - BAT |
| • for control circuit and status message | 1 screw terminal each for 0.14 ... 4 mm ² |
| 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 |
| mounting height | 130 mm |
| required spacing | |
| • top | 15 mm |
| • bottom | 0 mm |
| • left | 0 mm |
| • right | 0 mm |
| fastening method | |
| • wall mounting | Yes |
| • standard rail mounting | Yes |
| • S7 rail mounting | No |
| fastening method | snaps onto DIN rail EN 60715 35x7.5/15 or keyhole mounting for hooking in to M4 screws |
| net weight | 3.7 kg |
| number of cells | 12 |
| battery capacity | 2.5 A·h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |



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