

SITOP UPS1100 BATTERY MOD. 24 V/12 AH  
 SITOP UPS1100 Battery module with warning not closed Lead  
 batteries for SITOP DC-USV Modules; DC 24 V 12 Ah



### 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

### Output

Rated current value Iout rated	40 A
Permissible charging current, max.	3 A
Rated voltage Vout DC	24 V

### Safety

Short-circuit protection	Battery fuse 2x 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
<b>Safety</b>	
Protection class	Class III
Degree of protection (EN 60529)	IP20
<b>Approvals</b>	
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	DNV GL, ABS
<b>environmental conditions</b>	
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>	<p>-15 ... +50 °C</p> <p>-20 ... +50 °C</p> <p>-20 ... +50 °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> </ul>	<p>capacity falls to 80 % of original capacity (according to EUROBAT)</p> <p>4 y</p> <p>2 y</p> <p>1 y</p> <p>0.5 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 0.5 ... 16 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 belonging to	Accessories pack with solid-state circuitry fuse 25 A
Width of the enclosure	253 mm
Height of the enclosure	186 mm
Depth of the enclosure	110 mm
Installation width	253 mm
Installation height	201 mm
Weight, approx.	9.8 kg
Installation	can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)
Number of cells	12
Battery	12 A·h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)