



SITOP UPS1100/BATTERY MODULE/24V/12AH

SITOP UPS1100 Battery module with maintenance-free sealed lead batteries for SITOP DC UPS module 24 V DC 12 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
Output	
output current rated value	40 A
charging current maximum	3 A
output voltage at DC rated value	24 V
Safety	
design of short-circuit protection	Battery fuse 2x 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	
<ul style="list-style-type: none"> during operation during transport during storage 	<p>-15 ... +50 °C</p> <p>-20 ... +50 °C</p> <p>-20 ... +40 °C</p>
relative temporary capacity loss at 20 °C in a month typical	3 %

Service life

service life of energy storage	capacity falls to 80 % of original capacity (according to EUROBAT)
<ul style="list-style-type: none"> typical at 20 °C typical at 30 °C typical at 40 °C typical at 50 °C typical 	<p>4 a</p> <p>2 a</p> <p>1 a</p> <p>0.5 a</p>
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
<ul style="list-style-type: none"> for power supply unit for control circuit and status message 	<p>1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT</p> <p>1 screw terminal each for 0.14 ... 4 mm²</p>
product component included	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
mounting height	201 mm
required spacing	
<ul style="list-style-type: none"> top bottom left right 	<p>15 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p>
fastening method	Yes
<ul style="list-style-type: none"> wall mounting standard rail mounting S7 rail mounting 	<p>No</p> <p>No</p>
fastening method	can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)
net weight	9.8 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)

