



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
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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	-15 ... +50 °C
• during transport	-20 ... +50 °C
• during storage	-20 ... +40 °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	4 y
• at 30 °C typical	2 y
• at 40 °C typical	1 y
• at 50 °C typical	0.5 y
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 0.5 ... 16 mm² for + BAT and - BAT
• for control circuit and status message	1 screw terminal each for 0.14 ... 4 mm²
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	
• top	15 mm
• bottom	0 mm
• left	0 mm
• right	0 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	9.8 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)

