



SITOP BATTERY MODULE/24V/12AH

SITOP battery module 24 V/12 Ah with maintenance free sealed lead batteries for SITOP DC UPS module 6 A, 15 A and 40 A *Ex approval no longer available*

Charging current charging voltage

end-of-charge voltage at DC	
• at -10 °C recommended	29 V
• at 0 °C recommended	28.4 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

charging current maximum	3 A
output voltage at DC rated value	24 V

Safety

design of short-circuit protection	Battery fuse 20 A/32 V (solid-state circuitry blade-type fuse + support)
design of the overload protection	Valve control

Safety

operating resource protection class	Class III
protection class IP	IP00

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
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• EAC approval	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	-15 ... +50 °C

• during transport	-20 ... +50 °C
• during storage	-20 ... +50 °C
relative temporary capacity loss at 20 °C in a month typical	3 %
Service life	
service life of energy storage • typical • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 50 °C typical	capacity falls to 80 % of original capacity (according to EUROBAT) 4 y 2 y 1 y 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	spring-loaded terminals
• for power supply unit	1 screw terminal each for 0.08 ... 4 mm² for + BAT and - BAT
product component included	Accessories pack with solid-state circuitry fuse 20 A and 30 A
width of the enclosure	253 mm
height of the enclosure	168 mm
depth of the enclosure	121 mm
installation width	273 mm
mounting height	188 mm
fastening method	
• wall mounting • standard rail mounting • S7 rail mounting	Yes No No
fastening method	can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)
net weight	9 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)

