Data sheet

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	3 %
typical	3 /0
Service life	
service life of energy storage	
• typical	capacity falls to 80 % of original capacity (according to EUROBAT)
• at 20 °C typical	10 y
at 30 °C typical	7 y
• at 40 °C typical	3 y
• at 50 °C typical	1.5 y
• at 60 °C typical	1 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 0.2 6 mm² 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)

