

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	
<ul style="list-style-type: none"> at -10 °C recommended 	28 V
<ul style="list-style-type: none"> at 0 °C recommended 	28 V
<ul style="list-style-type: none"> at 10 °C recommended 	27.8 V
<ul style="list-style-type: none"> at 20 °C recommended 	27.3 V
<ul style="list-style-type: none"> at 30 °C recommended 	26.8 V
<ul style="list-style-type: none"> at 40 °C recommended 	26.6 V
<ul style="list-style-type: none"> at 50 °C recommended 	26.3 V
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> CE marking 	Yes
<ul style="list-style-type: none"> UL approval 	Yes
<ul style="list-style-type: none"> as approval for USA 	cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627
<ul style="list-style-type: none"> CSA approval 	No
<ul style="list-style-type: none"> cCSAus, Class 1, Division 2 	No
<ul style="list-style-type: none"> ATEX 	No
certificate of suitability	
<ul style="list-style-type: none"> EAC approval 	Yes
<ul style="list-style-type: none"> C-Tick 	Yes
<ul style="list-style-type: none"> shipbuilding approval 	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> DNV GL 	Yes

environmental conditions

Operating data note	For storage, mounting and operation of lead-acid batteries, the relevant
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	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 typical	3 %
Service life	
service life of energy storage	capacity falls to 80 % of original capacity (according to EUROBAT)
• typical	10 a
• at 20 °C typical	7 a
• at 30 °C typical	3 a
• at 40 °C typical	1.5 a
• at 50 °C typical	1 a
• at 60 °C typical	
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 mm ² 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)

