

SITOP UPS1100/BATTERY MODULE/24V/2.5AH



SITOP UPS1100 Battery module
with warning not closed Lead
batteries for SITOP DC-USV
Modules; DC 24 V 2.5 Ah

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

Rated current value I _{out} rated	20 A
Permissible charging current, max.	5 A
Rated voltage V _{out} DC	24 V

Safety

Short-circuit protection	Battery fuse 25 A/32 V (solid-state circuitry blade-type fuse + support)
design of the overload protection	Valve control
Status display	LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication

Safety

Protection class	Class III
Degree of protection (EN 60529)	IP20

Approvals

CE mark	Yes
UL/cUL (CSA) approval	cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627
Explosion protection	IECEx Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4
Approvals	Yes
Marine approval	ABS, DNV GL

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.
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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	
• typical note	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 note	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	
Connection technology	screw-type terminals
Connection for power supply unit	1 screw terminal each for 0.2 ... 6 mm ² for + BAT and - BAT
type of electrical connection 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
Installation 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
Installation	snaps onto DIN rail EN 60715 35x7.5/15 or keyhole mounting for hooking in to M4 screws
Weight, approx.	3.7 kg
number of cells	12
Battery	2.5 A·h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

