



SITOP UPS1100/BATTERY MODULE/24V/7AH

SITOP UPS1100 Battery module with warning not closed Lead batteries for SITOP DC-USV Modules; DC 24 V 7 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

Output

Rated current value I _{out} rated	40 A
Permissible charging current, max.	1.75 A
Rated voltage V _{out} DC	24 V

Safety

Short-circuit protection	Battery fuse 2x 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.
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	capacity falls to 80 % of original capacity (according to EUROBAT)
• typical note	
• at 20 °C typical	
• at 30 °C typical	
• at 40 °C typical	
• at 50 °C typical	0.5 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 0.5 ... 16 mm² for + BAT and - BAT
type of electrical connection 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	186 mm
height of the enclosure	186 mm
depth of the enclosure	110 mm
installation width	186 mm
Installation height	201 mm
required spacing	15 mm 0 mm 0 mm 0 mm
• top	
• bottom	
• left	
• right	
fastening method	Yes No No
• wall mounting	
• standard rail mounting	
• S7 rail mounting	
Installation	can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)
Weight, approx.	6.1 kg
number of cells	12
Battery	7 A·h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

