



SITOP BAT1600/BATT.MODUL/24V/12AH/EX

SITOP BAT1600 EX 24 V DC 12 Ah Pb battery module with maintenance-free closed lead-acid battery for SITOP UPS1600

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	
output current rated value	40 A
charging current maximum	3 A
output voltage at DC rated value	24 V
Safety	
design of the overload protection	Valve control
display version for normal operation	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible
Safety	
operating resource protection class	Class III
protection class IP	IP20
Approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	No
• CSA approval	No
• cCSAus, Class 1, Division 2	No
• ATEX	Yes
certificate of suitability	
• IECEx	Yes
certificate of suitability	
• shipbuilding approval	No
shipbuilding approval	available soon
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• DNV GL	No
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 %
<b>Service life</b>	
service life of energy storage	
• typical	capacity falls to 80 % of original capacity (according to EUROBAT)
• at 20 °C typical	4 y
• at 30 °C typical	2 y
• at 40 °C typical	1 y
• at 50 °C typical	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.
<b>Mechanics</b>	
type of electrical connection	screw-type terminals
• for power supply unit	1 screw terminal each for 0.5 ... 16 mm <sup>2</sup> for + BAT and - BAT
• for control circuit and status message	1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup>
product component included	2x Maxi Fuse 50 A/32 V
width of the enclosure	225 mm
height of the enclosure	156 mm
depth of the enclosure	138 mm
installation width	225 mm
mounting height	256 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	
• wall mounting	Yes
• standard rail mounting	No
• S7 rail mounting	No
fastening method	Wall mounting
net weight	10.2 kg
number of cells	2
battery capacity	12 A·h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

