



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

SITOP BAT1600 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	Yes
• as approval for USA	UL-Listed (UL 621010, CSA C22.2 No. 107.1)
• CSA approval	Yes
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• 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 • during transport • during storage	-15 ... +50 °C -20 ... +50 °C -20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %
Service life	
service life of energy storage • typical • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 50 °C typical	capacity falls to 80 % of original capacity (according to EUROBAT) 4 a 2 a 1 a 0.5 a
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 • for power supply unit • for control circuit and status message	screw-type terminals 1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT 1 screw terminal each for 0.2 ... 2.5 mm²
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 • bottom • left • right	50 mm 50 mm 0 mm 0 mm
fastening method • wall mounting • standard rail mounting • S7 rail mounting	Yes No 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)

