



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

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

Charging current charging voltage	
end-of-charge voltage at DC	
<ul style="list-style-type: none"> <li>at -10 °C recommended</li> <li>at 0 °C recommended</li> <li>at 10 °C recommended</li> <li>at 20 °C recommended</li> <li>at 30 °C recommended</li> <li>at 40 °C recommended</li> <li>at 50 °C recommended</li> </ul>	28 V 28 V 27.8 V 27.3 V 26.8 V 26.6 V 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	
<ul style="list-style-type: none"> <li>CE marking</li> <li>UL approval</li> <li>as approval for USA</li> <li>CSA approval</li> <li>cCSAus, Class 1, Division 2</li> <li>ATEX</li> </ul>	Yes Yes UL-Listed (UL 621010, CSA C22.2 No. 107.1) Yes No No
certificate of suitability	
<ul style="list-style-type: none"> <li>C-Tick</li> <li>shipbuilding approval</li> </ul>	Yes Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>DNV GL</li> </ul>	Yes 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	

<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-15 ... +50 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-20 ... +50 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %
<b>Service life</b>	
service life of energy storage	capacity falls to 80 % of original capacity (according to EUROBAT)
<ul style="list-style-type: none"> <li>• typical</li> </ul>	4 a
<ul style="list-style-type: none"> <li>• at 20 °C typical</li> </ul>	2 a
<ul style="list-style-type: none"> <li>• at 30 °C typical</li> </ul>	1 a
<ul style="list-style-type: none"> <li>• at 40 °C typical</li> </ul>	0.5 a
<ul style="list-style-type: none"> <li>• at 50 °C typical</li> </ul>	
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
<ul style="list-style-type: none"> <li>• for power supply unit</li> </ul>	1 screw terminal each for 0.5 ... 16 mm <sup>2</sup> for + BAT and - BAT
<ul style="list-style-type: none"> <li>• for control circuit and status message</li> </ul>	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	
<ul style="list-style-type: none"> <li>• top</li> </ul>	50 mm
<ul style="list-style-type: none"> <li>• bottom</li> </ul>	50 mm
<ul style="list-style-type: none"> <li>• left</li> </ul>	0 mm
<ul style="list-style-type: none"> <li>• right</li> </ul>	0 mm
fastening method	
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• standard rail mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• S7 rail mounting</li> </ul>	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)

