



SITOP BAT1600/BATT.MODUL/24V/2.5AH

SITOP BAT1600 24 V DC 2.5 Ah LiFePO4 lithium battery for SITOP UPS1600 \*\*\*  
NOT FOR AIR FREIGHT \*\*\*

### Charging current charging voltage

end-of-charge voltage at DC

• at -10 °C recommended	28.8 V
• at 0 °C recommended	28.8 V
• at 10 °C recommended	28.8 V
• at 20 °C recommended	28.8 V
• at 30 °C recommended	28.8 V
• at 40 °C recommended	28.8 V
• at 50 °C recommended	28.8 V

### Output

output current rated value	10 A
charging current maximum	3 A
output voltage at DC rated value	24 V

### Safety

display version for normal operation	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible
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### 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 batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed.
ambient temperature	
• during operation	-10 ... +50 °C
• during transport	-30 ... +70 °C

<ul style="list-style-type: none"> <li>during storage</li> </ul>	-20 ... +35 °C
relative temporary capacity loss at 20 °C in a month typical	1 %
<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>	
<ul style="list-style-type: none"> <li>at 20 °C typical</li> </ul>	
<ul style="list-style-type: none"> <li>at 30 °C typical</li> </ul>	
<ul style="list-style-type: none"> <li>at 40 °C typical</li> </ul>	
<ul style="list-style-type: none"> <li>at 50 °C typical</li> </ul>	
<ul style="list-style-type: none"> <li>at 60 °C typical</li> </ul>	2 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.
<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 ... 10 mm² 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 mm²
product component included	2x Maxi Fuse 25 A/32 V
width of the enclosure	89 mm
height of the enclosure	156 mm
depth of the enclosure	129 mm
installation width	89 mm
mounting height	256 mm
required spacing	50 mm 50 mm 0 mm 0 mm
<ul style="list-style-type: none"> <li>top</li> </ul>	
<ul style="list-style-type: none"> <li>bottom</li> </ul>	
<ul style="list-style-type: none"> <li>left</li> </ul>	
<ul style="list-style-type: none"> <li>right</li> </ul>	
fastening method	Yes Yes Yes
<ul style="list-style-type: none"> <li>wall mounting</li> </ul>	
<ul style="list-style-type: none"> <li>standard rail mounting</li> </ul>	
<ul style="list-style-type: none"> <li>S7 rail mounting</li> </ul>	
fastening method	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0
net weight	2 kg
number of cells	1
battery capacity	2.5 A·h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

