

SITOP BAT8600/LiFePO4/264WH

SITOP BAT8600 LiFePO4 battery module for UPS8600 DC 48 V/264 Wh energy storage: mainten.-free lithium iron-phosph. batteries



Output	
energy content of energy storage	264 W·h
output current rated value	20 A
output voltage at DC rated value	48 V
number of parallel-switched equipment resources for increasing the power	5
Safety	
design of short-circuit protection	Blade-type fuse 40 A, 58 V DC
design of the overload protection	Valve control
Safety	
operating resource protection class	Class III
protection class IP	IP20
Approvals	
certificate of suitability	
<ul style="list-style-type: none"> <li>UL approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>as approval for USA</li> </ul>	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
<ul style="list-style-type: none"> <li>CSA approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>cCSAus, Class 1, Division 2</li> </ul>	No
<ul style="list-style-type: none"> <li>ATEX</li> </ul>	No
type of certification CB-certificate	Yes
certificate of suitability	
<ul style="list-style-type: none"> <li>EAC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>shipbuilding approval</li> </ul>	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DNV GL</li> </ul>	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	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-10 ... +50 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +80 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +35 °C
Service life	
service life of energy storage	
<ul style="list-style-type: none"> <li>typical</li> </ul>	capacity falls to 80 % of original capacity (according to EUROBAT)
<ul style="list-style-type: none"> <li>at 20 °C typical</li> </ul>	15 y
<ul style="list-style-type: none"> <li>at 30 °C typical</li> </ul>	10 y

<ul style="list-style-type: none"> <li>• at 40 °C typical</li> <li>• at 50 °C typical</li> </ul>	9 y 2 y
ambient temperature during storage	In addition to the storage temperature, additional factors, such as storage duration and charging status during storage, have a major impact on the potential service life. This means batteries should preferably be stored fully charged for short periods of time in a dry, cool and frost-proof (temperature range 0 to +20 °C) location.
<b>Mechanics</b>	
type of electrical connection <ul style="list-style-type: none"> <li>• for power supply unit</li> </ul>	Plug-in terminals with screwed connection +, -: 2 plug-in terminals with 1 screwed connection each for 0.2 ... 10 mm <sup>2</sup>
product component included	2x blade-type fuse 40 A, 58 V DC
width of the enclosure	322 mm
height of the enclosure	187 mm
depth of the enclosure	110 mm
installation width	322 mm
mounting height	207 mm
required spacing <ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	20 mm 0 mm 0 mm 0 mm
fastening method <ul style="list-style-type: none"> <li>• wall mounting</li> <li>• standard rail mounting</li> <li>• S7 rail mounting</li> </ul>	Yes No No
fastening method	Keyhole mounting for hooking in to M4 screws
net weight	6.5 kg
number of batteries	4
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

