

SITOP BAT8600/LiFePO4/358WH

SITOP BAT8600 LiFePO4 battery module for UPS8600 48 V DC/358 Wh energy storage: maintenance-free lithium iron phosphate batteries



Technical Product Detail Page

<https://i.siemens.com/1P6EP4143-8JB00-0XY0>

### output

energy content of energy storage	358 W·h
output current rated value	20 A
output voltage at DC rated value	48 V
design of the mains power cut bridging-connection	typ. 21 min at 960 W system load, typ. 42 min at 480 W system load (applies to new, fully charged battery module at ambient temperature 25°C)
number of parallel-switched equipment resources for increasing the power	5

### interfaces

communication function	Yes
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### protection and monitoring

design of short-circuit protection	Blade-type fuse 40 A, 58 V DC
design of the overload protection	Valve control
display version for normal operation	3-color LED for operating state module

### safety

operating resource protection class	Class III
protection class IP	IP20

### standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> <li>• EAC approval</li> </ul>	<p>Yes</p> <p>Yes; cULus (UL 61010-1 3rd Ed., UL 61010-2-201 2nd Ed.)</p> <p>Yes</p>
type of certification CB-certificate	Yes

### standards, specifications, approvals hazardous environments

certificate of suitability	
<ul style="list-style-type: none"> <li>• ATEX</li> </ul>	No

### standards, specifications, approvals marine classification

shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Det Norske Veritas (DNV)</li> </ul>	<p>Yes</p> <p>Yes</p>

### ambient conditions

ambient condition	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> <li>• during transport</li> <li>• during storage</li> </ul>	<p>-10 ... +50 °C</p> <p>-30 ... +70 °C</p> <p>-20 ... +35 °C</p>

service life	
service life of energy storage	capacity falls to 80 % of original capacity (according to EUROBAT)
<ul style="list-style-type: none"> <li>• typical</li> <li>• at 10 °C typical</li> <li>• at 20 °C typical</li> <li>• at 30 °C typical</li> <li>• at 40 °C typical</li> <li>• at 50 °C typical</li> </ul>	15 a 13 a 8 a 4 a 2 a
note	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.
connection method	
type of electrical connection	Plug-in terminals with screwed connection
<ul style="list-style-type: none"> <li>• for UPS module</li> <li>• for data cable</li> </ul>	+ , - : 2 plug-in terminals with 1 screwed connection each for 0.2 ... 10 mm <sup>2</sup> COM1, COM2: 2 plug-in terminals with 1 screwed connection each for 0.2 ... 2.5 mm <sup>2</sup>
mechanical data	
width × height × depth of the enclosure	322 × 187 × 110 mm
installation width × mounting height	322 mm × 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	Keyhole mounting for hooking in to M4 screws
<ul style="list-style-type: none"> <li>• DIN-rail mounting</li> <li>• S7 rail mounting</li> <li>• wall mounting</li> </ul>	No No Yes
net weight	7.1 kg
number of batteries	4
accessories	
product component included	2x blade-type fuse 40 A, 58 V DC
further information internet links	
internet link	
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: power supplies</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://siemens.com/sitop">https://siemens.com/sitop</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)
Classifications	

	Version	Classification
eClass	14	27-05-04-03
eClass	12	27-05-04-03
eClass	9.1	27-05-04-03
eClass	9	27-05-04-03
eClass	8	27-05-04-03
eClass	7.1	27-05-04-03
eClass	6	27-05-04-90
ETIM	10	EC000357
ETIM	9	EC000357
ETIM	8	EC000357
ETIM	7	EC000357
UNSPSC	15	26-11-17-01

**Approvals Certificates**

**General Product Approval**



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



**Maritime application**

**Dangerous goods**



[Dangerous goods information](#)

[Transport Information](#)

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