

SITOP Battery module/24V/2.5AH

SITOP pure lead-acid battery module 24 V/2.5 Ah with maintenance-free sealed lead-acid batteries for SITOP DC UPS module 6 A and 15 A



### electrical data

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> <li>• at 60 °C recommended</li> </ul>	<p>29 V</p> <p>28.6 V</p> <p>28.3 V</p> <p>27.9 V</p> <p>27.5 V</p> <p>27.2 V</p> <p>26.8 V</p> <p>26.4 V</p>

### output

battery capacity	2.5 A·h
output current in buffering mode maximum	15 A
peak current	15 A
charging current maximum	5 A
output voltage at DC rated value	24 V

### interfaces

communication function	No
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### protection and monitoring

design of short-circuit protection	Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)
design of the overload protection	Valve control

### safety

operating resource protection class	Class III
protection class IP	IP00

### 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; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627</p> <p>Yes</p>

### standards, specifications, approvals hazardous environments

certificate of suitability	
<ul style="list-style-type: none"> <li>• ATEX</li> <li>• cCSAus, Class 1, Division 2</li> </ul>	<p>No</p> <p>No</p>

### 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>

### standards, specifications, approvals Environmental Product Declaration

Environmental Product Declaration	Yes
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global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>• total</li> <li>• during manufacturing</li> <li>• during operation</li> <li>• after end of life</li> </ul>	<p>14.9 kg</p> <p>9.4 kg</p> <p>3.8 kg</p> <p>0.59 kg</p>
<b>ambient conditions</b>	
ambient condition	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> <li>• during transport</li> <li>• during storage</li> </ul>	<p>-40 ... +60</p> <p>-40 ... +60</p> <p>-40 ... +60</p>
relative temporary capacity loss at 20 °C in a month typical	3 %
<b>service life</b>	
service life of energy storage	
<ul style="list-style-type: none"> <li>• 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> <li>• at 60 °C typical</li> </ul>	<p>capacity falls to 80 % of original capacity (according to EUROBAT)</p> <p>10 a</p> <p>7 a</p> <p>3 a</p> <p>1.5 a</p> <p>1 a</p>
note	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>connection method</b>	
type of electrical connection	spring-loaded terminals
<ul style="list-style-type: none"> <li>• for UPS module</li> </ul>	1 screw terminal each for 0.08 ... 2.5 mm <sup>2</sup> for + BAT and - BAT
<b>mechanical data</b>	
width × height × depth of the enclosure	265 × 151 × 91 mm
installation width × mounting height	285 mm × 171 mm
fastening method	snaps onto DIN rail EN 60715 35x15 or 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>	<p>Yes</p> <p>No</p> <p>Yes</p>
net weight	3.8 kg
number of cells	12
<b>accessories</b>	
product component included	Accessories pack with solid-state circuitry fuse 15 A
<b>further information internet links</b>	
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>	<p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://siemens.com/sitop">https://siemens.com/sitop</a></p> <p><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
<b>additional information</b>	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
<b>security information</b>	
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

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**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	9	EC000357
ETIM	8	EC000357
ETIM	7	EC000357
UNSPSC	15	26-11-17-01

**Approvals Certificates**

**General Product Approval**



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



EG-Konf.



UL



CSA

**General Product Approval**

**Maritime application**

**Dangerous goods**

**Environment**



UR

[Miscellaneous](#)



ABS



DNV

[Dangerous goods information](#)



EPD

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