



SITOP BAT1600/Battery module/24V/3.2AH

SITOP BAT1600 24 V DC 3.2 Ah Pb battery module with maintenance-free closed lead-acid battery for SITOP UPS1600

### electrical data

end-of-charge voltage at DC	
• at -10 °C recommended	28 V
• at 0 °C recommended	28 V
• at 10 °C recommended	27.8 V
• at 20 °C recommended	27.3 V
• at 30 °C recommended	26.8 V
• at 40 °C recommended	26.6 V
• at 50 °C recommended	26.3 V

### output

battery capacity	3.2 A·h
output current rated value	20 A
output current in buffering mode maximum	20 A
peak current	60 A; for 30 ms
charging current maximum	0.8 A
output voltage at DC rated value	24 V

### interfaces

communication function	Yes
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### protection and monitoring

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

### standards, specifications, approvals

certificate of suitability	<ul style="list-style-type: none"> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> </ul>	Yes Yes; cULus-Listed (UL 61010-1, UL61010-2-201, CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289; cCSAus (CSA 62368-1, UL62368-1) Yes; cULus-Listed (UL 61010-1, UL61010-2-201, CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289; cCSAus (CSA 62368-1, UL62368-1)
type of certification CB-certificate	Yes	

### 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>	No No
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### standards, specifications, approvals marine classification

shipbuilding approval	Yes
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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>	Yes in preparation
<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>	-15 ... +50 °C -20 ... +50 °C -20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical		3 %
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> </ul>	capacity falls to 80 % of original capacity (according to EUROBAT) 4 a 2 a 1 a 0.5 a
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>mechanical data</b>		
type of electrical connection	screw-type terminals <ul style="list-style-type: none"> <li>for power supply unit</li> <li>for control circuit and status message</li> </ul> 1 screw terminal each for 0.5 ... 10 mm <sup>2</sup> for + BAT and - BAT 1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup>	
<b>design, dimensions and weights</b>		
width x height x depth of the enclosure	89 x 156 x 169 mm	
installation width x mounting height	89 x 256 mm	
required spacing	<ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> 50 mm 50 mm 0 mm 0 mm	
fastening method	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0 <ul style="list-style-type: none"> <li>standard rail mounting</li> <li>S7 rail mounting</li> <li>wall mounting</li> </ul> Yes Yes Yes	
net weight	3.8 kg	
number of cells	2	
<b>accessories</b>		
product component included	2x Maxi Fuse 25 A/32 V	
<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 website: Industrial communication</li> <li>to website: CAx-Download-Manager</li> </ul> <a href="https://mail.industry.siemens.com">https://mail.industry.siemens.com</a> <a href="https://siemens.com/tst">https://siemens.com/tst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	
<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 security 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 security 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 security	

measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>. 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 Security RSS Feed under <https://www.siemens.com/cert>. (V4.6)

## Classifications

	Version	Classification
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	EC000356
ETIM	8	EC000356
ETIM	7	EC000356

## Approvals Certificates

General Product Approval	Dangerous Good
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[Manufacturer Declaration](#)



[Transport Information](#)

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