

SITOP UPS1100/Battery module/24V/2.5AH

SITOP UPS1100 battery module with maintenance-free sealed pure lead-acid for SITOP DC UPS modules 24 V DC 2.5 Ah



### 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>	<ul style="list-style-type: none"> <li>28 V</li> <li>28 V</li> <li>27.8 V</li> <li>27.3 V</li> <li>26.8 V</li> <li>26.6 V</li> <li>26.3 V</li> <li>26 V</li> </ul>

### output

battery capacity	2.5 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	5 A
output voltage at DC rated value	24 V

### interfaces

communication function	Yes
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### protection and monitoring

design of short-circuit protection	Battery fuse 25 A/32 V (solid-state circuitry blade-type fuse + support)
design of the overload protection	Valve control
display version for normal operation	LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication

### 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> <li>EAC approval</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627</li> <li>No</li> <li>Yes</li> </ul>

### 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>	<ul style="list-style-type: none"> <li>No</li> <li>No</li> </ul>

### 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>
<b>standards, specifications, approvals Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO <sub>2</sub> 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>14.6 kg</p> <p>9.1 kg</p> <p>3.8 kg</p> <p>0.58 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	screw terminal
<ul style="list-style-type: none"> <li>for UPS module</li> <li>for control circuit and status message</li> </ul>	<p>1 screw terminal each for 0.2 ... 6 mm<sup>2</sup> for + BAT and - BAT</p> <p>1 screw terminal each for 0.14 ... 4 mm<sup>2</sup></p>
<b>mechanical data</b>	
width × height × depth of the enclosure	265 × 115 × 76 mm
installation width × mounting height	265 mm × 130 mm
required spacing	
<ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	<p>15 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p>
fastening method	snaps onto DIN rail EN 60715 35x7.5/15 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	3.7 kg
number of cells	12
<b>accessories</b>	
product component included	Accessories pack with solid-state circuitry fuse 25 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)

**security information**

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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



RCM

**Maritime application**

**Dangerous goods**

**Environment**



ABS



DNV

[Dangerous goods information](#)



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