

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	
<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> </ul>	28 V 28 V 27.8 V 27.3 V 26.8 V 26.6 V 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
protection and monitoring	
design of short-circuit protection	25A / 32V Maxi flat fuse
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
standards, specifications, approvals marine classification	

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

**standards, specifications, approvals Environmental Product Declaration**

Environmental Product Declaration	Yes
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>	16 kg 9.4 kg 4.9 kg 0.59 kg

**ambient conditions**

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.

**connection method**

type of electrical connection	screw terminal
<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>

**mechanical data**

width × height × depth of the enclosure	89 × 156 × 169 mm
installation width × mounting height	89 × 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

**accessories**

product component included	2x Maxi Fuse 25 A/32 V
mechanical accessories	BAT1600 wall mounting kit 6EP4990-0MK00-0XU0

**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 website: Industrial communication</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="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> <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
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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	EC000356
ETIM	8	EC000356
ETIM	7	EC000356

## Approvals Certificates

General Product Approval

Environment



[Manufacturer Declaration](#)



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