



SITOP BAT1600/Battery module/24V/2.5AH

SITOP BAT1600 24 V DC 2.5 Ah LiFePO4 lithium battery for SITOP UPS1600  
A03= 30% charge for air cargo

Technical Product Detail Page

<https://i.siemens.com/1P6EP4132-0JA00-0AY0-ZA03>

electrical data	
end-of-charge voltage at DC	
• at -10 °C recommended	28.8 V
• at 0 °C recommended	28.8 V
• at 10 °C recommended	28.8 V
• at 20 °C recommended	28.8 V
• at 30 °C recommended	28.8 V
• at 40 °C recommended	28.8 V
• at 50 °C recommended	28.8 V
output	
battery capacity	2.5 A·h
output current rated value	10 A
output current in buffering mode maximum	10 A
peak current	45 A; for 30 ms
charging current maximum	3 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
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	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289
• UKCA marking	Yes
type of certification CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	

- American Bureau of Shipping Europe Ltd. (ABS)
- Det Norske Veritas (DNV)

Yes  
in preparation

#### standards, specifications, approvals Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	21.638 kg
• during manufacturing	20.5 kg
• during operation	0.067 kg
• after end of life	0.391 kg

#### 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	
• during operation	-10 ... +50 °C
• during transport	-30 ... +70 °C
• during storage	-20 ... +35 °C
relative temporary capacity loss at 20 °C in a month typical	1 %

#### service life

service life of energy storage	capacity falls to 80 % of original capacity (according to EUROBAT)
• typical	
• at 20 °C typical	11 a
• at 30 °C typical	11 a
• at 40 °C typical	8 a
• at 50 °C typical	6 a
• at 60 °C typical	2 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
• for UPS module	1 screw terminal each for 0.5 ... 10 mm <sup>2</sup> for + BAT and - BAT
• for control circuit and status message	1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup>

#### mechanical data

width × height × depth of the enclosure	89 × 156 × 129 mm
installation width × mounting height	89 mm × 256 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0
• DIN-rail mounting	Yes
• S7 rail mounting	Yes
• wall mounting	Yes

#### net weight

net weight	2 kg
number of cells	1

#### 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	
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: power supplies	<a href="https://siemens.com/sitop">https://siemens.com/sitop</a>
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</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	<p>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)</p>

<b>Classifications</b>			
		<b>Version</b>	<b>Classification</b>
	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

<b>Approvals Certificates</b>	
General Product Approval	Dangerous goods



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[Manufacturer Declaration](#) [Dangerous goods information](#) [Transport Information](#) [Test Summary Report UN 38.3](#)

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