



SITOP BAT1600/Battery module/24V/38AH

SITOP BAT1600 24 V DC 38 Ah Pb battery module with maintenance- free closed lead-acid battery for SITOP UPS1600

Technical Product Detail Page

<https://i.siemens.com/1P6EP4137-0GE00-0AY0>

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	38 A·h
output current rated value	40 A
output current in buffering mode maximum	40 A
peak current	120 A; for 30 ms
charging current maximum	9 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	50A / 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	
• 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
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Marine classification association	
<ul style="list-style-type: none"> 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 [CO ₂ eq]	
<ul style="list-style-type: none"> total during manufacturing during operation after end of life 	82.936 kg 68.82 kg 1.778 kg 3.627 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	
<ul style="list-style-type: none"> during operation during transport during storage 	-15 ... +50 °C -30 ... +70 °C -20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %
service life	
service life of energy storage	
<ul style="list-style-type: none"> typical at 20 °C typical at 30 °C typical at 40 °C typical at 50 °C typical 	capacity falls to 80 % of original capacity (according to EUROBAT) 10 a 5 a 2.5 a 1.25 a
note	In addition to the storage temperature, additional factors, such as storage duration and charging status during storage, have a major impact on the potential service life. This means batteries should preferably be stored fully charged for short periods of time in a dry, cool and frost-proof (temperature range 0 to +20 °C) location.
connection method	
type of electrical connection	Plug-in terminals with screwed connection
<ul style="list-style-type: none"> for UPS module for control circuit and status message 	1 screw terminal each for 0.5 ... 16 mm ² for + BAT and - BAT 1 screw terminal each for 0.2 ... 2.5 mm ²
mechanical data	
width × height × depth of the enclosure	394 × 212 × 165 mm
installation width × mounting height	330 mm × 262 mm
required spacing	
<ul style="list-style-type: none"> top bottom left right 	50 mm 50 mm 0 mm 0 mm
fastening method	Floor mounting
<ul style="list-style-type: none"> DIN-rail mounting S7 rail mounting wall mounting 	No No No
net weight	27.9 kg
number of cells	2
accessories	
product component included	2x Maxi Fuse 50 A/32 V
further information internet links	
internet link	
<ul style="list-style-type: none"> to website: Industry Mall to web page: selection aid TIA Selection Tool to web page: power supplies to website: CAX-Download-Manager to website: Industry Online Support 	https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/sitop https://www.siemens.com/cax https://support.industry.siemens.com
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless

	otherwise specified)
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security information	
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 www.siemens.com/cybersecurity-industry. 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 https://www.siemens.com/cert. (V4.7)</p>

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	10	EC000357
	ETIM	9	EC000357
	ETIM	8	EC000357
	ETIM	7	EC000357

Approvals Certificates	
General Product Approval	Dangerous goods



[Manufacturer Declaration](#)



[Dangerous goods information](#)

Dangerous goods	Environment
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[Transport Information](#)



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