



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
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

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>standards, specifications, approvals Environmental Product Declaration</b>		
Environmental Product Declaration		Yes
global warming potential [CO <sub>2</sub> eq]		
• total	82.936 kg	
• during manufacturing	68.82 kg	
• during operation	1.778 kg	
• after end of life	3.627 kg	
<b>ambient conditions</b>		
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	-15 ... +50 °C	
• during transport	-30 ... +70 °C	
• during storage	-20 ... +40 °C	
relative temporary capacity loss at 20 °C in a month typical	3 %	
<b>service life</b>		
service life of energy storage		capacity falls to 80 % of original capacity (according to EUROBAT)
• typical	10 a	
• at 20 °C typical	5 a	
• at 30 °C typical	2.5 a	
• at 40 °C typical	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.
<b>connection method</b>		
type of electrical connection		Plug-in terminals with screwed connection
• for UPS module	1 screw terminal each for 0.5 ... 16 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>	
<b>mechanical data</b>		
width × height × depth of the enclosure	394 × 212 × 165 mm	
installation width × mounting height	330 mm × 262 mm	
required spacing		
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method		Floor mounting
• DIN-rail mounting	No	
• S7 rail mounting	No	
• wall mounting	No	
net weight	27.9 kg	
number of cells	2	
<b>accessories</b>		
product component included	2x Maxi Fuse 50 A/32 V	
<b>further information internet links</b>		
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	

**security information**

## 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	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

[Transport Information](#)

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