



SITOP CAS1600/Capacitorm./24VDC//0.5Ah

SITOP CAS1600 0.5 Ah 24 V DC 0.5 Ah SuCAP capacitor module with maintenance- free sealed supercapacitors for SITOP UPS1600

Technical Product Detail Page

<https://i.siemens.com/1P6EP4135-0HA00-0AY0>

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
• at 60 °C recommended	28.8 V

output

battery capacity	0.5 A-h
output current rated value	40 A
output current in buffering mode maximum	40 A
peak current	120 A; 1x 120 A for 30 ms/1x 60 A for 5 s per minute
charging current maximum	40 A
output voltage at DC rated value	24 V
design of the mains power cut bridging-connection	12 s/40 A
number of parallel-switched equipment resources for increasing the power	4

interfaces

communication function	Yes
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protection and monitoring

design of short-circuit protection	50A / 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 (UL 61010-1 3rd Ed., UL 61010-2-201 2nd Ed.), File E143289
• UKCA marking	Yes
• EAC approval	No
• Regulatory Compliance Mark (RCM)	Yes
type of certification CB-certificate	Yes

standards, specifications, approvals hazardous environments

certificate of suitability	
<ul style="list-style-type: none"> • IECEx • ATEX • ULhazloc approval • CCC for hazardous zone according to GB standard • FM registration 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) 	<p>in preparation</p> <p>in preparation</p> <p>No</p> <p>No</p>
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>65.8 kg</p> <p>52.3 kg</p> <p>11.2 kg</p> <p>0.98 kg</p>
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	<p>-40 ... +60 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p>
relative temporary capacity loss at 20 °C in a month typical	1.5 %
installation altitude at height above sea level maximum	4 000 m
service life	
service life of energy storage	
<ul style="list-style-type: none"> • typical • at 10 °C typical • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 50 °C typical • at 60 °C typical 	<p>Reduction of capacity to 80% of the original capacity (according to EUROBAT) - Attention: 80% capacity does not mean 80% of the buffer time; the buffer time is even shorter due to the increase in internal resistance at the end of life</p> <p>15 a</p> <p>15 a</p> <p>8 a</p> <p>4 a</p> <p>2 a</p> <p>1 a</p>
note	SuCAPs do not need to be charged during storage - recharging is not required
connection method	
type of electrical connection	screw terminal
<ul style="list-style-type: none"> • for UPS module • for control circuit and status message 	<p>1 screw terminal each for 0.5 ... 16 mm² for + CAS and - CAS</p> <p>1 screw terminal each for 0.2 ... 2.5 mm²</p>
mechanical data	
width × height × depth of the enclosure	157 × 156 × 175 mm
installation width × mounting height	157 mm × 256 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	<p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p>
fastening method	can be screwed onto flat surface with wall mounting adapter ("keyhole mounting" for hooking onto M4 screws)
<ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting 	<p>Yes</p> <p>No</p> <p>Yes</p>
net weight	3.3 kg
number of cells	22
accessories	

product component included	accessory kit with 2x FKS fuse 50 A, power connector, signal connector
mechanical accessories	BAT1600 wall mounting kit 6EP4990-0MK00-0XU0
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)

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	Environment

[Manufacturer Declaration](#)

[China RoHS](#)



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