



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

General information	
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
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	
• IECEx	No
• ATEX	No
• ULhazloc approval	No
• CCC for hazardous zone according to GB standard	No
• FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	in preparation
• Det Norske Veritas (DNV)	in preparation
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	65.8 kg
• during manufacturing	52.3 kg
• during operation	11.2 kg
• after end of life	0.98 kg
ambient conditions	
ambient temperature	
• during operation	-40 ... +60 °C
• during transport	-40 ... +70 °C
• during storage	-40 ... +70 °C
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	
• typical	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
• at 10 °C typical	15 a
• at 20 °C typical	15 a
• at 30 °C typical	8 a
• at 40 °C typical	4 a
• at 50 °C typical	2 a
• at 60 °C typical	1 a
note	SuCAPs do not need to be charged during storage - recharging is not required
connection method	
type of electrical connection	screw terminal
• for UPS module	1 screw terminal each for 0.5 ... 16 mm² for + CAS and - CAS
• for control circuit and status message	1 screw terminal each for 0.2 ... 2.5 mm²
mechanical data	
width × height × depth of the enclosure	157 × 156 × 175 mm
installation width × mounting height	157 mm × 256 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	can be screwed onto flat surface with wall mounting adapter ("keyhole mounting" for hooking onto M4 screws)
• DIN-rail mounting	Yes
• S7 rail mounting	No
• wall mounting	Yes
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	
- 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	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)

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	Environment

[Manufacturer Declaration](#)

[China RoHS](#)

[Dangerous goods information](#)



last modified:

5/5/2026 