SIEMENS

Data sheet 6EP4134-0GE10-0AY0



SITOP BAT1600/Battery module/24V/7AH

SITOP BAT1600 24 V DC 7 Ah Pb battery module with maintenance- free sealed lead-acid battery for SITOP UPS1600

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP4134-0GE10-0AY0
product brand name	SITOP
product type designation	BAT1600
product designation	Battery module 7 Ah Pb
type of battery	maintenance-free lead-acid batteries
product version	Extension module/battery module
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	7 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	1.75 A
output voltage at DC rated value	24 V
number of parallel-switched equipment resources for increasing the power	6
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 (UL 61010-1 3rd Ed., UL 61010-2-201 2nd Ed.), File E143289

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● UKCA marking	Yes
● Regulatory Compliance Mark (RCM)	Yes
type of certification CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	No
● ATEX	No
● CCC for hazardous zone according to GB standard	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
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	25.62 kg
● during manufacturing	14.8 kg
● during operation	8.167 kg
● after end of life	0.78 kg
ambient conditions	
ambient condition	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.
ambient temperature	
● during operation	-15 ... +50 °C
● during transport	-20 ... +50 °C
● during storage	-20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %
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	4 a
● at 20 °C typical	4 a
● at 30 °C typical	2 a
● at 40 °C typical	1 a
● at 50 °C typical	0.5 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 ... 16 mm² for + BAT and - BAT
● 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 × 138 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 (keyhole mounting for hooking in to M4 screws)
● DIN-rail mounting	No

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● S7 rail mounting	No
● wall mounting	Yes
net weight	6 kg
number of batteries	2
number of cells	2

accessories

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

further information internet links

internet link	
● to website: Industry Mall	https://mall.industry.siemens.com
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: power supplies	https://siemens.com/sitop
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	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	16	27-05-04-03
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	Dangerous goods information	Dangerous goods information	Transport Information	EPD

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last modified:	7/31/2026

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