SIEMENS

Data sheet 6EP4134-0JA00-0AY0-Z A03

	SITOP BAT1600/Battery module/24V/7.5AH SITOP BAT1600 24 V DC 7.5 Ah LiFePO4 lithium battery for SITOP UPS1600 A03= 30% charge for air cargo
Technical Product Detail Page	https://i.siemens.com/1P6EP4134-0JA00-0AY0-ZA03
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	<kein Wert>
output	
battery capacity	7.5 A·h
energy content of energy storage	<kein Wert>
output current rated value	40 A
output current in buffering mode maximum	40 A
peak current	120 A; for 30 ms
charging current maximum	3 A
output voltage at DC rated value	24 V
design of the mains power cut bridging-connection	<kein Wert>
number of parallel-switched equipment resources for increasing the power	<kein Wert>
interfaces	
communication function	Yes
protection and monitoring	
design of short-circuit protection	50A / 32V Maxi flat fuse
design of the overload protection	<kein Wert>
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
degree of protection NEMA rating	<kein Wert>
Safety Integrity Level (SIL) according to IEC 61508	<kein Wert>
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
● CSA approval	<kein Wert>; <kein Wert>
● UKCA marking	Yes
● EAC approval	<kein Wert>
● Regulatory Compliance Mark (RCM)	<kein Wert>
type of certification CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	<kein Wert>; <kein Wert>
● ATEX	No; <kein Wert>

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● ULhazloc approval	<kein Wert>
● cCSAus, Class 1, Division 2	<kein Wert>
● CCC for hazardous zone according to GB standard	<kein Wert>; <kein Wert>
● FM registration	<kein Wert>; <kein Wert>
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes; <kein Wert>
● French marine classification society (BV)	<kein Wert>; <kein Wert>
● Det Norske Veritas (DNV)	<kein Wert>; in preparation
● Lloyds Register of Shipping (LRS)	<kein Wert>; <kein Wert>
● Nippon Kaiji Kyokai (NK)	<kein Wert>; <kein Wert>
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	43.4 kg
● during manufacturing	41 kg
● during operation	0.202 kg
● after end of life	0.781 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	
● during operation	-10 ... +50 °C
● in horizontal mounting position during operation	<kein Wert>; <kein Wert>
● during transport	-30 ... +70 °C
● during storage	-20 ... +35 °C
relative temporary capacity loss at 20 °C in a month typical	1 %
installation altitude at height above sea level maximum	<kein Wert>
ambient condition relating to ambient temperature - air pressure - installation altitude	<kein Wert>
relative humidity with condensation according to IEC 60068-2-38 maximum	<kein Wert>; <kein Wert>
chemical resistance to commercially available cooling lubricants	<kein Wert>; <kein Wert>
resistance to biologically active substances conformity according to EN 60721-3-3	<kein Wert>; <kein Wert>
resistance to chemically active substances conformity according to EN 60721-3-3	<kein Wert>; <kein Wert>
resistance to mechanically active substances conformity according to EN 60721-3-3	<kein Wert>; <kein Wert>
resistance to biologically active substances conformity according to EN 60721-3-6	<kein Wert>; <kein Wert>
resistance to chemically active substances conformity according to EN 60721-3-6	<kein Wert>; <kein Wert>
resistance to mechanically active substances conformity according to EN 60721-3-6	<kein Wert>; <kein Wert>
coating for equipped printed circuit board according to EN 61086	<kein Wert>; <kein Wert>
type of coating protection against pollution according to EN 60664-3	<kein Wert>; <kein Wert>
type of test of the coating according to MIL-I-46058C	<kein Wert>; <kein Wert>
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	<kein Wert>; <kein Wert>
service life	
service life of energy storage	
● typical	capacity falls to 80 % of original capacity (according to EUROBAT)
● at 10 °C typical	<kein Wert>
● at 20 °C typical	11 a
● at 30 °C typical	11 a
● at 40 °C typical	8 a
● at 50 °C typical	6 a

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● at 60 °C typical	2 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 data cable	<kein Wert>
● for control circuit and status message	1 screw terminal each for 0.2 ... 2.5 mm²
mechanical data	
width × height × depth of the enclosure	238 × 156 × 129 mm
installation width × mounting height	238 mm × 256 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
fastening method	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0
● DIN-rail mounting	Yes
● S7 rail mounting	Yes
● wall mounting	Yes
net weight	4 kg
number of batteries	<kein Wert>
number of cells	3
accessories	
product component included	2x Maxi Fuse 50 A/32 V
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	14	27-05-04-03
eClass	12	27-05-04-03

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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		
CB	Manufacturer Declaration	Dangerous goods information	Transport Information	Test Summary Report UN 38.3

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