SIEMENS

Data sheet 6EP4132-0JA00-0AY0-Z A03

SITOP BAT1600/BATT.MODUL/24V/2.5AH

SITOP BAT1600 24 V DC 2.5 Ah LiFePO4 lithium battery for SITOP UPS1600
A03= 30% charge for air cargo

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
output	
battery capacity	2.5 A·h
output current rated value	10 A
output current in buffering mode maximum	10 A
peak current	45 A; for 30 ms
charging current maximum	3 A
output voltage at DC rated value	24 V
interfaces	
communication function	Yes
protection and monitoring	
design of short-circuit protection	25A / 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-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289; cCSAus (CSA 62368-1, UL62368-1)
● CSA 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; cCSAus (CSA 62368-1, UL62368-1)
type of certification CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
● ATEX	No
● cCSAus, Class 1, Division 2	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes

Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● Det Norske Veritas (DNV)	in preparation
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
● during transport	-30 ... +70 °C
● during storage	-20 ... +35 °C
relative temporary capacity loss at 20 °C in a month typical	1 %
service life of energy storage	
● typical	capacity falls to 80 % of original capacity (according to EUROBAT)
● at 20 °C typical	11 a
● at 30 °C typical	11 a
● at 40 °C typical	8 a
● at 50 °C typical	6 a
● 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 power supply unit	1 screw terminal each for 0.5 ... 10 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	89 × 156 × 129 mm
installation width × mounting height	89 × 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
● standard rail mounting	Yes
● S7 rail mounting	Yes
● wall mounting	Yes
net weight	2 kg
number of cells	1
accessories	
product component included	2x Maxi Fuse 25 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://siemens.com/tst
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: CAx-Download-Manager	http://www.siemens.com/cax
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	9	EC000356
ETIM	8	EC000356
ETIM	7	EC000356

Approvals Certificates

General Product Approval		Dangerous Good	
CB CB	CSA	Manufacturer Declaration	Dangerous Goods Information

last modified: 4/8/2024