SIEMENS

Data sheet 6EP4143-8JB00-0XY0

SITOP BAT8600/LIFEPO4/264WH

SITOP BAT8600 LiFePO4 battery module for UPS8600 DC 48 V/264 Wh energy storage: mainten.-free lithium iron-phosph. batteries

output	
energy content of energy storage	264 W·h
output current rated value	20 A
output voltage at DC rated value	48 V
design of the mains power cut bridging-connection	typ. 14 min at 960 W system load, typ. 29 min at 480 W system load (applies to new, fully charged battery module at ambient temperature 25°C)
number of parallel-switched equipment resources for increasing the power	5
interfaces	
communication function	Yes
protection and monitoring	
design of short-circuit protection	Blade-type fuse 40 A, 58 V DC
design of the overload protection	Valve control
display version for normal operation	3-color LED for operating state module
safety	
operating resource protection class	Class III
protection class IP	IP20
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes
● CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
● EAC approval	Yes
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)	Yes
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	-40 ... +80 °C
● during storage	-40 ... +35 °C

service life of energy storage	
● typical	capacity falls to 80 % of original capacity (according to EUROBAT)
● at 20 °C typical	15 a
● at 30 °C typical	10 a
● at 40 °C typical	9 a
● at 50 °C typical	2 a
note	In addition to the storage temperature, additional factors, such as storage duration and charging status during storage, have a major impact on the potential service life. This means batteries should preferably be stored fully charged for short periods of time in a dry, cool and frost-proof (temperature range 0 to +20 °C) location.
connection method	
type of electrical connection	Plug-in terminals with screwed connection
● for power supply unit	+, -: 2 plug-in terminals with 1 screwed connection each for 0.2 ... 10 mm²
mechanical data	
width × height × depth of the enclosure	322 × 187 × 110 mm
installation width × mounting height	322 × 207 mm
required spacing	
● top	20 mm
● bottom	0 mm
● left	0 mm
● right	0 mm
fastening method	Keyhole mounting for hooking in to M4 screws
● standard rail mounting	No
● S7 rail mounting	No
● wall mounting	Yes
net weight	6.5 kg
number of batteries	4
accessories	
product component included	2x blade-type fuse 40 A, 58 V DC
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 website: Industrial communication	http://www.siemens.com/simatic-net
● to website: CAx-Download-Manager	http://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
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
UNSPSC	15	26-11-17-01

Approvals Certificates

General Product Approval					Marine / Shipping
CB	CSA	Manufacturer Declaration	Declaration of Conformity	UKCA	ABS

Marine / Shipping	Dangerous goods
DNV	Dangerous goods information

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