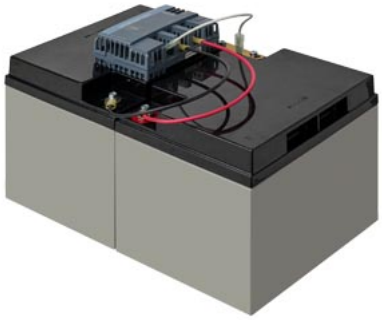
SIEMENS

Data sheet 6EP4137-0GE00-0AY0



SITOP BAT1600/Battery module/24V/38AH

SITOP BAT1600 24 V DC 38 Ah Pb battery module with maintenance- fee closed lead-acid battery for SITOP UPS1600

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	38 A·h
output current rated value	40 A
output current in buffering mode maximum	40 A
peak current	120 A; for 30 ms
charging current maximum	9 A
output voltage at DC rated value	24 V
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-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
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
● total	83.7 kg
● during manufacturing	68.8 kg
● during operation	2.3 kg
● after end of life	4.34 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	-15 ... +50 °C
● during transport	-30 ... +70 °C
● during storage	-20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %
service life of energy storage	
● typical	capacity falls to 80 % of original capacity (according to EUROBAT)
● at 20 °C typical	10 a
● at 30 °C typical	5 a
● at 40 °C typical	2.5 a
● at 50 °C typical	1.25 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	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	394 × 212 × 165 mm
installation width × mounting height	330 × 262 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
fastening method	Floor mounting
● standard rail mounting	No
● S7 rail mounting	No
● wall mounting	No
net weight	27.9 kg
number of cells	2
accessories	
product component included	2x Maxi Fuse 50 A/32 V
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

CB CSA Manufacturer Declara-tion UKCA CE EG-Konf. UL

Dangerous Good	Environment
Transport Information	EPD

last modified: 5/22/2024