# **SIEMENS**

## **Data sheet**

# 6EP4131-0GB00-0AY0



SITOP UPS1100/Battery module/24V/1.2AH

SITOP UPS1100 Battery module with maintenance- free sealed lead batteries for SITOP DC UPS module 24 V DC 1.2 Ah \*Ex approval no longer available\*

end-of-charge voltage at DC  • at 1-10 °C recommended  • at 0 °C recommended  28 V  • at 10 °C recommended  27.8 V  • at 20 °C recommended  28.8 V  • at 30 °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 50 °C recommended  28.8 V  • at 50 °C recommended  28.8 V   output current recommended  28.9 V  output current recommended  29.8 V  output current recommended  10 A  output current in buffering mode maximum  10 A  output current in buffering mode maximum  10 A  output current in buffering mode maximum  10 A  output voltage at DC rated value  24 V  interfaces  communication function  Yes  protection and monitoring  design of short-circuit protection  design of short-circuit protection  design of hie overload protection  design of hie overload protection  display version for normal operation  EED green: Eattery OK; LED flashing green: Error or warning; OFF: No communication  safety  operating resource protection class  Class III  protection alss IP  iP20  standards, specifications, approvals  • CE marking  Ves  • UL approval  • CSA approval  • CSAus, Class 1, Division 2  No  standards, specifications, approvals marine classification  shipbulking approval  • Areican Bureau of Shipping Europe Ltd. (ABS)  Yes  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)	electrical data		
at 0 °C recommended 27.8 V  at 10 °C recommended 27.8 V  at 20 °C recommended 27.8 V  at 20 °C recommended 28.8 V  at 30 °C recommended 28.6 V  at 40 °C recommended 28.6 V  at 50 °C recommended 28.6 V  at 50 °C recommended 28.6 V  at 50 °C recommended 28.6 V  authorized 28.8 V	end-of-charge voltage at DC		
at 10 °C recommended 27.8 V at 20 °C recommended 27.3 V at 40 °C recommended 26.8 V at 40 °C recommended 26.6 V at 60 °C recommended 26.6 V at 60 °C recommended 26.8 V  at 60 °C recommended 26.8 V  battery capacity 26.3 V  output current rated value 10 A output current in buffering mode maximum 0.3 A output votrage at DC rated value 24 V  Interfaces  communication function Yes  protection and monitoring  design of short-circuit protection Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)  design of the overload protection Valve control  display version for normal operation CEB green: Battery OK; LED flashing green: Error or warning; OFF: No communication  safety  operating resource protection class  protection class IP protection class Specifications, approvals  certificate of suitability  OCSA approval  ECB marking Yes  UL approval  ECB marking Yes  UL approval  ECB marking Yes  CSA approval  ECS approval Yes  Standards, specifications, approvals marrine classification  Shipbuilding approval  Marine classification association	<ul> <li>at -10 °C recommended</li> </ul>	28 V	
at 20 °C recommended 27.3 V at 30 °C recommended 26.8 V at 40 °C recommended 26.8 V at 40 °C recommended 26.8 V  at 50 °C recommended 26.8 V  battery capacity 25.3 V  battery capacity 1.2 Ah output current rated value 10 A output current in buffering mode maximum 10 A output current maximum 0.3 A output voltage at DC rated value 24 V  interfaces  communication function Yes  protection and monitoring  design of short-circuit protection Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support) design of the overload protection Valve control  display version for normal operation ELED green: Battery OK; LED flashing green: Error or warning; OFF: No communication fuses IP operating resource protection class Class III protection class IP et and ards, specifications, approvals  certificate of suitability  • CE marking Yes • CE marking Yes • CE approval Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  No • EAC approval Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  **Ves  **Standards**, specifications**, approvals hazardous environments  certificate of suitability  • ATEX  • CSAus, Class 1, Division 2  No  **Marine classification association  Yes  Marine classification association	<ul> <li>at 0 °C recommended</li> </ul>	28 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 1.2 Arh output current rated value 10 A peak current 30 A; for 30 ms charging current maximum 0.3 A output voltage at DC rated value 24 V  interfaces  communication function Yes  protection and monitoring design of short-circuit protection Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support) design of the overload protection Valve control display version for normal operation  EED green. Battery OK; LED flashing green: Error or warning; OFF: No communication safety  operating resource protection class protection alsa IP protection alsa IP  UL approval  CE marking Yes  UL approval  CE marking Yes  UL approval  CE marking Yes  CE	<ul> <li>at 10 °C recommended</li> </ul>	27.8 V	
at 40 °C recommended 26.6 V at 50 °C recommended 26.3 V  output  battery capacity 1.2 Arh  output current rated value 10 A output current in buffering mode maximum 10 A peak current (as a current maximum 10 A charging current maximum 0.3 A output voltage at DC rated value 24 V  interfaces  communication function Yes  protection and monitoring  design of short-clicuit protection Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)  design of the overload protection LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  safety  operating resource protection class  protection class IP protection class IP standards, specifications, approvals certificate of suitability  • CE marking • CE mark	<ul> <li>at 20 °C recommended</li> </ul>	27.3 V	
output current rated value 10 A 10	<ul> <li>at 30 °C recommended</li> </ul>	26.8 V	
battery capacity 1.2 A-h 0.0 output current rated value 10 A 0.0 output current in buffering mode maximum 10 A 0.3	<ul> <li>at 40 °C recommended</li> </ul>	26.6 V	
battery capacity  output current rated value  output current in buffering mode maximum  output current in buffering mode maximum  peak current  30 A; for 30 ms  charging current maximum  output voltage at DC rated value  interfaces  communication function  protection and monitoring  design of short-circuit protection  display version for normal operation  safety  operating resource protection class  protection class IP  protection class III  protection class II	• at 50 °C recommended	26.3 V	
output current rated value  output current in buffering mode maximum  peak current  30 A; for 30 ms  charging current maximum  output voltage at DC rated value  24 V  interfaces  communication function  Protection and monitoring  design of short-circuit protection  design of the overload protection  display version for normal operation  Safety  operating resource protection class  protection class IP  standards, specifications, approvals  e CE marking  • CE marking  • CE markon  • EAC approval  • EAC approval  • EAC approval  standards, specifications, approvals hazardous environments  certificate of suitability  • ATEX  • CESAus, Class 1, Division 2  standards, specifications, approvals marine classification  Shipbuilding approval  Marine classification association	output		
output current in buffering mode maximum  peak current  30 A; for 30 ms  charging current maximum  output voltage at DC rated value  interfaces  communication function  Protection and monitoring  design of short-circuit protection  display version for normal operation  safety  operating resource protection class  protection class IP  standards, specifications, approvals  e CSA approval  e CSA approval  e ATEX  ATEX  ATEX  ATEX  A CCSA USA (SISS II, Division 2  Standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association  10 A  30 A; for 30 ms  44 V   Interfaces  Cas V  Salety  Ves  Pes  Dattery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  Shipbuilding approval  A Yes  Marine classification association	battery capacity	1.2 A·h	
peak current  charging current maximum  output voltage at DC rated value  interfaces  communication function  protection and monitoring  design of short-circuit protection  design of the overload protection  display version for normal operation  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  safety  operating resource protection class  protection class IP  standards, specifications, approvals  certificate of suitability  CEM approval  EAC approval Approval  EAC approval Approval Approvals  certificate of suitability  ATEX  ON  ON  No  standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	output current rated value	10 A	
charging current maximum  output voltage at DC rated value  interfaces  communication function  protection and monitoring  design of short-circuit protection  display version for normal operation  safety  operating resource protection class protection class IP  standards, specifications, approvals hazardous environments  certificate of suitability  • EAC approval  • EAC approval  standards, specifications, approvals hazardous environments  certificate of suitability  • ATEX  • CCSAus, Class 1, Division 2  Marine classification association	output current in buffering mode maximum	10 A	
output voltage at DC rated value  interfaces  communication function  protection and monitoring  design of short-circuit protection  display version for normal operation  safety  operating resource protection class  protection class IP  standards, specifications, approvals  • EAC approval  • EAC approval  • ATEX  • ATEX  • CSAus, Class 1, Division 2  shipbuilding approval  Marine classification association  Yes  Pastery V  Sature 15 A/32 V (solid-state circuitry blade-type fuse + support)  Valve control  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  Safety  Operating resource protection class  I LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  Safety  Operating resource protection class III  P20  Standards, specifications, approvals  No  • CSAus, Class 1, Division 2  No  Standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	peak current	30 A; for 30 ms	
communication function  protection and monitoring  design of short-circuit protection  display version for normal operation  asafety  operating resource protection class protection class IP standards, specifications, approvals  • CE marking • UL approval • CSA approval • CSA approval • CATEX • ATEX • CSCSAus, Class 1, Division 2  Marine classification sporovals marine classification shipbuilding approval  Marine classification sporotetion class (public time to the classification sporovals marine classification)  Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)  Valve control  Valve control  Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)  Valve control  Class III P20  P20  Standards, specifications, approvals  Yes  Ves  CE marking  Yes  Ves  *CURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  No  *CSA approval  *ATEX  *No  *CSCSAus, Class 1, Division 2  No  *Standards, specifications, approvals marine classification shipbuilding approval  Yes  Marine classification association	charging current maximum	0.3 A	
communication function Yes  protection and monitoring  design of short-circuit protection Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)  design of the overload protection Valve control  display version for normal operation LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  safety  operating resource protection class Class III  protection class IP IP20  standards, specifications, approvals  certificate of suitability  • CE marking Yes  • UL approval Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  • CSA approval No  • EAC approval Yes  standards, specifications, approvals hazardous environments  certificate of suitability  • CSA, specifications, approvals hazardous environments  certificate, Specifications, approvals hazardous environments  certificate of suitability  • ATEX  • CCSAus, Class 1, Division 2  No  standards, specifications, approvals marine classification  shipbuilding approval  Yes  Marine classification association		24 V	
design of short-circuit protection  design of the overload protection  display version for normal operation  safety  operating resource protection class protection class IP  standards, specifications, approvals  • CSA approval  • EAC approval  • EAC approval  • EAC approval  • EAC approval  • CSAus, Class 1, Division 2  standards, specifications, approvals marine classification  shipbuilding approval  Ausilia Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)  Valve control  Valve control  Valve control  Valve control  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  Standards, specifications, approvals  No  Standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	interfaces		
design of short-circuit protection design of the overload protection display version for normal operation  safety  operating resource protection class protection class IP  standards, specifications, approvals  • CSA approval • EAC approval • EAC approval • EAC approval • CSAus, Class 1, Division 2  standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support) Valve control CED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  Valve control Va	communication function	Yes	
design of the overload protection  display version for normal operation  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  safety  operating resource protection class  protection class IP  IP20  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  standards, specifications, approvals hazardous environments  certificate of suitability  • ATEX  • cCSAus, Class 1, Division 2  standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	protection and monitoring		
display version for normal operation  LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication  safety  operating resource protection class  Class III  protection class IP  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  • EAC approval  standards, specifications, approvals hazardous environments  certificate of suitability  • ATEX  • CSAus, Class 1, Division 2  standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	design of short-circuit protection	Battery fuse 15 A/32 V (solid-state circuitry blade-type fuse + support)	
safety  operating resource protection class  protection class IP  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  • EAC approval  • EAC approval  • CSAus, Class 1, Division 2  standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	design of the overload protection	Valve control	
operating resource protection class  protection class IP  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  • EAC approvals Approvals  certificate of suitability  • ATEX  • CCSAus, Class 1, Division 2  standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	display version for normal operation		
protection class IP  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  • EAC approval  standards, specifications, approvals hazardous environments  certificate of suitability  • ATEX  • CSAus, Class 1, Division 2  standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	safety		
standards, specifications, approvals  certificate of suitability	operating resource protection class	Class III	
certificate of suitability  CE marking  UL approval  CSA approval  EAC approval  Standards, specifications, approvals hazardous environments  certificate of suitability  ATEX  CSA user of suitability  CSA user of suitability  CCSAus, Class 1, Division 2  Standards, specifications, approvals marine classification  Shipbuilding approval  Marine classification association	protection class IP	IP20	
CE marking UL approval UL approval CSA approval EAC approval Standards, specifications, approvals hazardous environments  Certificate of suitability ATEX CSA c22.2 No. 107.1), File E219627  No  No  CCSAus, Class 1, Division 2  Standards, specifications, approvals marine classification  Shipbuilding approval  Marine classification association	standards, specifications, approvals		
UL approval     CSA approval     CSA approval     EAC approval     Standards, specifications, approvals hazardous environments  Certificate of suitability     ATEX     No     CCSAus, Class 1, Division 2  Standards, specifications, approvals marine classification  Shipbuilding approval  Marine classification association  Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  No  Yes  Standards, specifications, approvals marine classification  Yes	certificate of suitability		
CSA approval  EAC approval  Standards, specifications, approvals hazardous environments  Certificate of suitability  ATEX  CCSAus, Class 1, Division 2  Standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	CE marking	Yes	
EAC approval     Standards, specifications, approvals hazardous environments  certificate of suitability     ATEX     No     cCSAus, Class 1, Division 2     No  standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  Yes	UL approval	Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627	
standards, specifications, approvals hazardous environments  certificate of suitability  • ATEX  • cCSAus, Class 1, Division 2  standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	CSA approval	No	
certificate of suitability  • ATEX  • cCSAus, Class 1, Division 2  Standards, specifications, approvals marine classification  shipbuilding approval  Marine classification association	EAC approval	Yes	
◆ ATEX     ◆ cCSAus, Class 1, Division 2     Standards, specifications, approvals marine classification     shipbuilding approval     Marine classification association	standards, specifications, approvals hazardous environments		
cCSAus, Class 1, Division 2     standards, specifications, approvals marine classification     shipbuilding approval     Marine classification association	certificate of suitability		
standards, specifications, approvals marine classification shipbuilding approval Marine classification association  Yes	• ATEX	No	
shipbuilding approval  Marine classification association  Yes		No	
Marine classification association	standards, specifications, approvals marine classification		
	shipbuilding approval	Yes	
American Bureau of Shipping Europe Ltd. (ABS)  Yes	Marine classification association		
	<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes	

Det Norske Veritas (DNV)	Yes	
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 %	
service life of energy storage		
• typical	capacity falls to 80 % of original capacity (according to EUROBAT)	
• 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.	
mechanical data		
type of electrical connection	screw-type terminals	
<ul> <li>for power supply unit</li> </ul>	1 screw terminal each for 0.2 6 mm² for + BAT and - BAT	
for control circuit and status message	1 screw terminal each for 0.14 4 mm <sup>2</sup>	
design, dimensions and weights		
width × height × depth of the enclosure	89 × 130 × 107 mm	
installation width × mounting height	89 × 145 mm	
required spacing		
• top	15 mm	
• bottom	0 mm	
• left	0 mm	
• right	0 mm	
fastening method	snaps onto DIN rail EN 60715 35x7.5/15 or keyhole mounting for hooking in to M4 screws	
• standard rail mounting	Yes	
S7 rail mounting	No	
wall mounting	Yes	
net weight	1.9 kg	
number of cells	12	
accessories	Acceptation pook with polid state singuitary from 45.4	
product component included	Accessories pack with solid-state circuitry fuse 15 A	
further information internet links		
internet link	http://www.sigmans.com/cay	
to website: CAx-Download-Manager  additional information	http://www.siemens.com/cax	
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 security 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 security 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 security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. 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 Security RSS Feed under https://www.siemens.com/cert. (V4.6)

## Classifications

	Version	Classification
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

**General Product Approval** 

For use in hazardous locations

Manufacturer Declara-<u>tion</u>

Declaration of Conformity





CCC-Ex



Marine / Shipping

**Dangerous Good** 





**Transport Information** 

Dangerous Goods Information

last modified:

12/15/2023

