6EP4134-0GB00-0AY0

Data sheet



SITOP UPS1100/Battery module/24V/7AH

SITOP UPS1100 battery module with maintenance- free sealed lead-acid batteries for SITOP DC UPS modules 24 V DC 7 Ah

end-of-charge voltage at DC at 1-10 °C recommended 28 V at 10 °C recommended 22 R V at 10 °C recommended 27.8 V at 30 °C recommended 27.8 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 27.8 V at 50 °C recommended 28.8 V at 60 °C recommended 29.8 V at 60 °C recomme	electrical data		
at 10 °C recommended 27.8 V at 10 °C recommended 27.8 V at 30 °C recommended 27.8 V at 30 °C recommended 26.8 V at 30 °C recommended 26.6 V at 40 °C recommended 26.6 V at 50 °C recommended 26.6 V output battery capacity 7 Ah output current rated value 40 A output current in buffering mode maximum 40 A peak current 120 A; for 30 ms charging current maximum 1.75 A output voltage at DC rated value 24 V interfaces communication function Yes design of short-circuit protection Battery fuse 2x 25 A/32 V (solid-state circuitry blade-type fuse + support) design of short-circuit protection Ualve control display version for normal operation Ualve Communication	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 26.8 V at 40 °C recommended 26.8 V at 60 °C recommended 26.8 V battery capacity 7 A·h output current rated value 40 A output current in buffering mode maximum 1.75 A output current in buffering mode maximum 1.75 A output voltage at DC rated value 24 V Interfaces communication function Yes protection and monitoring design of short-circuit protection Battery fuse 2x 25 A/32 V (solid-state circuitry blade-type fuse + support) design of the overload protection Uslaye version for normal operation 1.5 Class III protection class IP IP20 standards, specifications, approvals certificate of suitability ○CE marking Yes ○CSA approval ○CSA approval ○CSA approval ○CSA approvals Approvals marine classification shipbuilding approval Agency Amarine classification shipbuilding approvals marine classification association Yes Marine classification association Yes Marine classification association Yes Marine classification association	 at -10 °C recommended 	28 V	
at 20 °C recommended 27.3 V at 30 °C recommended 26.8 V at 30 °C recommended 26.8 V at 40 °C recommended 26.8 V at 50 °C recommended 26.8 V battery capacity 7 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 1.75 A output voltage at DC rated value 24 V interfaces communication function Yes protection and monitoring design of short-circuit protection 8 Battery fuse 2x 25 A/32 V (solid-state circuitry blade-type fuse + support) display version for normal operation LED green: Battery OK; LED flashing green: Error or warning; OFF: No communications protection dass IP stendards, 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 • CSA approval • EAC approval **TEX* No • CSAus, Class 1, Division 2 No **Stendards, specifications, approvals marine classification shipbuilding approval Marine classification association	 at 0 °C recommended 	28 V	
at 30 °C recommended 26.8 V at 40 °C recommended 26.8 V at 50 °C recommended 26.3 V putput battery capacity 7 A h output current rated value 40 A peak current 120 A; for 30 ms charging current maximum 1.75 A output voltage at DC rated value 24 V interfaces communication function Yes protection and monitoring design of short-circuit protection 4 Salve ontrol display version for normal operation EFD 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 tentificate of suitability • CE marking Yes • CSA approval No • ATEX No • ACSAus, Class 1, Division 2 No Marine classification association shipbuilding approval Marine classification association	 at 10 °C recommended 	27.8 V	
at 40 °C recommended 26.6 V at 50 °C recommended 26.3 V output battery capacity 7 A-h output current rated value 40 A output current in buffering mode maximum 40 A peak current charging current maximum 1.75 A output voltage at DC rated value 24 V interfaces communication function Yes protection and monitoring design of short-circuit protection Battery fuse 2x 25 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 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 Yes standards, specifications, approvals hazardous environments certificate of suitability • CE marking Yes • CSA approval Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627 • CSA approval Yes standards, specifications, approvals hazardous environments certificate of suitability • ATEX No • CSAus, Class 1, Division 2 No Marine classification association	 at 20 °C recommended 	27.3 V	
output current rated value 40 A output current in buffering mode maximum 40 A output current in buffering mode maximum 40 A output current in buffering mode maximum 40 A output current maximum 40 A output current maximum 40 A output voltage at DC rated value 24 V interfaces communication function Yes protection and monitoring design of short-circuit protection Battery fuse 2x 25 A/32 V (solid-state circuitry blade-type fuse + support) design of the overload protection Valve control LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication support of the overload protection class Class III protection class IP IP20 standards, specifications, approvals certificate of suitability Yes CE marking Yes current of suitability Yes carrent No expression of the communication output of the communication of the communication output of the communication output of the communication output of the communication of the communication output of the communication of the communication output of the communication output of the communication of the communication of the communication output of the communication output of the communication of the communication of the communic	 at 30 °C recommended 	26.8 V	
battery capacity 7 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 1.75 A output voltage at DC rated value 24 V interfaces communication function Yes protection and monitoring design of short-circuit protection Battery fuse 2x 25 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 Yes standards, specifications, approvals hazardous environments certificate of suitability • ATEX No • CSAus, Class 1, Division 2 No standards, specifications, approvals marine classification shipbuilding approval Marine classification association	 at 40 °C recommended 	26.6 V	
battery capacity 7 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 1.75 A output voltage at DC rated value 24 V interfaces communication function Yes protection and monitoring design of short-circuit protection Battery fuse 2x 25 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 class IP protection class IP standards, specifications, approvals certificate of suitability	• at 50 °C recommended	26.3 V	
output current rated value output current in buffering mode maximum peak current 120 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 display version for normal operation safety operating resource protection class protection class IP standards, specifications, approvals • CCS approval • EAC approval • EAC approval standards, specifications, approvals hazardous environments certificate of suitability • ATEX • CSAsu, Class 1, Division 2 standards, specifications, approvals marine classification shipbuilding approval Marine classification association	output		
output current in buffering mode maximum peak current 120 A; for 30 ms charging current maximum 1.75 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 hazardous environments certificate of suitability • CSA approval • EAC approval • ATEX • CSAUs, Class 1, Division 2 Standards, specifications, approvals marine classification shipbuilding approval Marine classification association	battery capacity	7 A·h	
peak current 120 A; for 30 ms charging current maximum 1.75 A output voltage at DC rated value 24 V interfaces communication function Yes protection and monitoring design of short-circuit protection Battery fuse 2x 25 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 Class III protection class IP IP20 standards, specifications, approvals certificate of suitability • CE marking Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627 • CSA approval Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627 • EAC approval Yes 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	output current rated value	40 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 • CSA approval • CSCAus, Class 1, Division 2 standards, specifications, approvals marine classification shipbuilding approval Marine classification association	output current in buffering mode maximum	40 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 • EAC approval • CESAus, Class 1, Division 2 sandards, specifications, approvals marine classification shipbuilding approval AVes Marine classification association Yes Pyes Ves Ves No Standards, specifications, approvals marine classification shipbuilding approval Marine classification association	peak current	120 A; for 30 ms	
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 • CE marking • UL approval • CSA approval • EAC approval • EAC approval standards, specifications, approvals hazardous environments certificate of suitability • EAC approval • CSA cost of suitability • ATEX • CSAus, Class 1, Division 2 Marine classification association	charging current maximum	1.75 A	
communication function Yes protection and monitoring design of short-circuit protection Battery fuse 2x 25 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 Yes standards, specifications, approvals hazardous environments certificate of suitability • EAC approval Yes standards, specifications, approvals hazardous environments certificate of suitability • CSAus, Class 1, Division 2 No standards, specifications, approvals marine classification shipbuilding approval Yes Marine classification association	output voltage at DC rated value	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 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 • CSA specifications, approvals hazardous environments certificate of suitability • ATEX • cCSAus, Class 1, Division 2 standards, specifications, approvals marine classification shipbuilding approval Marine classification association	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 Class III protection class IP 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 approvals 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 2x 25 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 Class II protection class P 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 No • EAC approval 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	display version for normal operation		
protection class IP 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 • CSAus, Class 1, Division 2 standards, specifications, approvals marine classification shipbuilding approval Marine classification association	safety		
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	operating resource protection class	Class III	
certificate of suitability CE marking UL approval CSA approval EAC approval EAC approval Certificate of suitability ATEX CSA C22.2 No. 107.1), File E219627 No CSAus, Class 1, Division 2 Standards, specifications, approvals marine classification Shipbuilding approval Marine classification association	protection class IP	tion class IP IP20	
CE marking Ves UL approval CSA 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 Yes Yes Yes No Yes Yes	standards, specifications, approvals		
UL approval CSA approval CSA 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 Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627 No Yes Standards, specifications, approvals hazardous environments No 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 No standards, specifications, approvals marine classification shipbuilding approval Marine classification association No Yes	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		
	 American Bureau of Shipping Europe Ltd. (ABS) 	Yes	

Det Norske Veritas (DNV)	Yes	
standards, specifications, approvals Environmental Product D		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	26.8 kg	
during manufacturing	13.6 kg	
during operation	10.7 kg	
after end of life	0.86 kg	
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	
 during transport 	-20 +50	
during storage	-20 +40	
relative temporary capacity loss at 20 °C in a month typical	3 %	
service life		
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.	
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 control circuit and status message 	1 screw terminal each for 0.14 4 mm ²	
mechanical data		
width × height × depth of the enclosure	186 × 186 × 110 mm	
installation width × mounting height	186 mm × 201 mm	
required spacing		
• top	15 mm	
• bottom	0 mm	
• left	0 mm	
• right	0 mm	
fastening method	can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)	
DIN-rail mounting	No	
S7 rail mounting	No	
wall mounting	Yes	
net weight	6.1 kg	
number of cells	12	
accessories		
product component included	Accessories pack with solid-state circuitry fuse 25 A	
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)

	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	EC000357
ETIM	8	EC000357
ETIM	7	EC000357
UNSPSC	15	26-11-17-01

Approvals Certificates

General Product Approval

Marine / Shipping

Manufacturer Declara-<u>tion</u>

Declaration of Conformity









Dangerous goods

Environment

Dangerous goods information



last modified:

4/9/2025