## **SIEMENS**

## Data sheet

6EP4133-0GB00-0AY0

SITOP UPS1100 BATTERY MOD. 24 V/3.2 AH SITOP UPS1100 Battery module with warning not closed Lead batteries for SITOP DC-USV Modules; DC 24 V 3,2 Ah



Charging current charging voltage  End-of-charge voltage at DC  • at -10 °C recommended  • at 0 °C recommended  • at 10 °C recommended  28 V  • at 10 °C recommended  27.8 V  • at 20 °C recommended  27.3 V	
<ul> <li>at 0 °C recommended</li> <li>at 10 °C recommended</li> <li>28 V</li> <li>27.8 V</li> </ul>	
• at 10 °C recommended 27.8 V	
- ut 10 0 1000/mmondod	
• at 20 °C recommended	
▼ at 20 Grecommended	
• at 30 °C recommended 26.8 V	
• at 40 °C recommended 26.6 V	
• at 50 °C recommended 26.3 V	
Output	
Rated current value lout rated 20 A	
Permissible charging current, max. 0.8 A	
Rated voltage Vout DC 24 V	
Safety	
Short-circuit protection Battery fuse 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  Safety  Protection class Class III Degree of protection (EN 60529) IP20  Approvals  CE mark Ves UL/CU (CSA) approval CLRus-Recognized (UL 1778, CSA C22,2 No. 107.1), File E219627  Explosion protection Explosion Explosio		
Protection class Class III Degree of protection (EN 60529) IP20  Approvals  CE mark Yes UIL/CUL (CSA) approval cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627 Explosion protection IECEX EX NA NC IIC 74 Gc; cCSAus (CSA C22.2 No. 213-M1987, ANSI/SA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4  Approvals Yes Marine approval DNV GL, ABS  environmental conditions  Operating data note For storage, mounting and operation of lead-acid batteries, the relevant DIN/DE 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 • during paraport • during storage  • during storage  • typical Note  • typical Note  • at 20 °C typical • at 30 °C typical • at 30 °C typical • at 50 °C typical • at 60 °C typical • at	Status display	
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Degree of protection (EN 60529)  Approvals  CE mark  UL/cUL (CSA) approval  Explosion protection  EIECEX EX nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4  Approvals  Approvals  Approvals  Approvals  Approvals  Por storage, mounting and operation of lead-acid batteries, the relevant DINV/DE regulations or country-specific regulations (e.g. VDE 0510 Part 2EN 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 • during transport • during storage  • during storage  • vyical Note  • specific of energy storage  • ypical Note  • at 20 °C typical • at 30 °C typical • at 50 °C typical • at 60 °		
Approvals  CE mark  Ves  CLrus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  Explosion protection  EECEK Ex nA nC IIC T4 Ge; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4  Approvals  Ansirina approval  DNV GL, ABS  Portionmental conditions  Operating data note  For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VVDE 0510 Part VEN 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  • during transport  • during storage  • during storage  • during storage  • typical Note  Service life  Service life of energy storage  • typical Note  • at 20 °C typical  • at 30 °C typical  • at 30 °C typical  • at 40 °C typical  • at 40 °C typical  • at 50 °C typical  • at 60 °C typi	Protection class	Class III
CE mark  UL/CUL (CSA) approval  CURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  Explosion protection  IECEX Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4  Approvals  Marine approval  Por Storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g., VDE 0510 Part J/EIN 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 peration • during storage  Alter temporary capacity loss at 20 °C in a month typical  Service life  Service life of energy storage  • typical Note  • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 50 °C typical • at 60 °C	Degree of protection (EN 60529)	IP20
CURUs-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627  Explosion protection  ECEX Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4  Approvals  Marine approval  PonV GL, ABS  environmental conditions  Operating data note  For storage, mounting and operation of lead-acid batteries, the relevant DINI/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 • during transport • during storage  • during storage  Relative temporary capacity loss at 20 °C in a month typical  Service life  Service life of energy storage  • typical Note  • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 40 °C typical • at 50 °C typical • at 50 °C typical • at 50 °C typical  Ambient temperature during storage 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.  Mechanics  Connection technology  screw-type terminals	Approvals	
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ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4  Approvals  Marine approval  Personal DNV GL, ABS  Bonvironmental conditions  Operating data note  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 • during storage  • during storage  Relative temporary capacity loss at 20 °C in a month typical  Service life  Service life  Service life of energy storage • typical Note • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 40 °C typical • at 50 °C typical • at 50 °C typical • Ambient temperature during storage Note  Ambient temperature during storage Note  Mechanics  Connection technology  Serw-type terminals	UL/cUL (CSA) approval	
Porvious and a proval  Ambient temperature  during storage  during storage  typical Note  Service life  Service life  Service life  Ant 20 °C typical  at 40 °C typical  Ambient temperature during storage Note  Ambient temperature during storage Note  Ambient temperature of the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage period and within the temperature of the shorage and within the temperature of the storage and within the temperature of the storage and within the temperature of the storage status during storage period and within the temperature range 0 to +20 °C.  Mechanics  Connection technology  Serew-type terminals	Explosion protection	
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<ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> <li>20 +50 °C</li> <li>Relative temporary capacity loss at 20 °C in a month typical</li> <li>Service life</li> <li>Service life of energy storage</li> <li>typical Note</li> <li>at 20 °C typical</li> <li>at 30 °C typical</li> <li>at 40 °C typical</li> <li>at 40 °C typical</li> <li>at 50 °C</li></ul>		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
<ul> <li>during transport</li> <li>during storage</li> <li>-20 +50 °C</li> </ul> Relative temporary capacity loss at 20 °C in a month typical Service life Service life of energy storage <ul> <li>typical Note</li> <li>capacity falls to 80 % of original capacity (according to EUROBAT)</li> <li>at 20 °C typical</li> <li>at 30 °C typical</li> <li>at 40 °C typical</li> <li>at 40 °C typical</li> <li>at 50 °C typical</li> <li>Ambient temperature during storage Note</li> </ul> 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. Mechanics Connection technology Screw-type terminals	Ambient temperature	
during storage     elative temporary capacity loss at 20 °C in a month typical  Service life  Service life of energy storage	during operation	-15 +50 °C
Relative temporary capacity loss at 20 °C in a month typical  Service life  Service life of energy storage  • typical Note  • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 50 °C typical • at 50 °C typical  Ambient temperature during storage 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, always fully charged, and within the temperature range 0 to +20 °C.  Mechanics  Connection technology  Service life  Capacity falls to 80 % of original capacity (according to EUROBAT)  4 y  2 y  1 y  0.5 y  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.	during transport	-20 +50 °C
Service life  Service life of energy storage  • typical Note  • at 20 °C typical  • at 30 °C typical  • at 40 °C typical  • at 50 °C typical  Mechanics  Connection technology  Service life  capacity falls to 80 % of original capacity (according to EUROBAT)  4 y  4 y  2 y  4 d  4 y  4 y  2 y  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.	during storage	-20 +50 °C
Service life of energy storage  • typical Note  capacity falls to 80 % of original capacity (according to EUROBAT)  • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 50 °C typical • at 50 °C typical  Ambient temperature during storage 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.  Mechanics  Connection technology  screw-type terminals		3 %
<ul> <li>typical Note</li> <li>capacity falls to 80 % of original capacity (according to EUROBAT)</li> <li>at 20 °C typical</li> <li>at 30 °C typical</li> <li>at 40 °C typical</li> <li>at 50 °C typical</li> <li>Ambient temperature during storage Note</li> <li>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.</li> <li>Mechanics</li> <li>Connection technology</li> </ul>	Service life	
EUROBAT)  • at 20 °C typical 4 y  • at 30 °C typical 2 y  • at 40 °C typical 1 y  • at 50 °C typical 0.5 y  Ambient temperature during storage 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.  Mechanics  Connection technology screw-type terminals		
<ul> <li>at 30 °C typical</li> <li>at 40 °C typical</li> <li>at 50 °C typical</li> <li>Ambient temperature during storage Note</li> <li>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.</li> <li>Mechanics</li> <li>Connection technology</li> </ul>	• typical Note	
<ul> <li>at 40 °C typical</li> <li>at 50 °C typical</li> <li>Ambient temperature during storage Note</li> <li>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.</li> <li>Mechanics</li> <li>Connection technology</li> </ul>	● at 20 °C typical	4 y
• at 50 °C typical  Ambient temperature during storage 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.  Mechanics  Connection technology  screw-type terminals	• at 30 °C typical	2 y
Ambient temperature during storage 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.  Mechanics  Connection technology screw-type terminals	● at 40 °C typical	1 y
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.  Mechanics  Connection technology screw-type terminals	● at 50 °C typical	0.5 y
Connection technology screw-type terminals		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
	Mechanics	
Connection for power supply unit 1 screw terminal each for 0.2 6 mm² for + BAT and - BAT	Connection technology	screw-type terminals
	Connection for power supply unit	1 screw terminal each for 0.2 6 mm² for + BAT and - BAT

Type of electrical connection for control circuit and status message	1 screw terminal each for 0.14 4 mm²
Product component belonging to	Accessories pack with solid-state circuitry fuse 25 A
Width of the enclosure	190 mm
Height of the enclosure	170 mm
Depth of the enclosure	78.7 mm
Installation width	190 mm
Installation height	184 mm
Weight, approx.	3.8 kg
Installation	snaps onto DIN rail EN 60715 35x15 or keyhole mounting for hooking in to M4 screws
Number of cells	12
Battery	3.2 A·h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)