SIEMENS

Data sheet 6EP1935-6MD31

SITOP BATTERY MODULE/24V/2.5AH

SITOP pure lead battery module 24 V/2.5 Ah with maintenance-free sealed lead batteries for SITOP DC UPS module 6 A and 15 A *Ex approval no longer available*

Charging current charging voltage	
end-of-charge voltage at DC	
● at -10 °C recommended	29 V
● at 0 °C recommended	28.6 V
● at 10 °C recommended	28.3 V
● at 20 °C recommended	27.9 V
● at 30 °C recommended	27.5 V
● at 40 °C recommended	27.2 V
● at 50 °C recommended	26.8 V
● at 60 °C recommended	26.4 V
Output	
charging current maximum	5 A
output voltage at DC rated value	24 V
Safety	
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
Safety	
operating resource protection class	Class III
protection class IP	IP00
Approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes
● as approval for USA	cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627
● cCSAus, Class 1, Division 2	No
● ATEX	No
certificate of suitability	
● EAC approval	Yes
● shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● DNV GL	Yes
environmental 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	

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● during operation	-40 ... +60 °C
● during transport	-40 ... +60 °C
● during storage	-40 ... +60 °C
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	10 y
● at 30 °C typical	7 y
● at 40 °C typical	3 y
● at 50 °C typical	1.5 y
● at 60 °C typical	1 y
ambient temperature during storage	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	
type of electrical connection	spring-loaded terminals
● for power supply unit	1 screw terminal each for 0.08 ... 2.5 mm² for + BAT and - BAT
product component included	Accessories pack with solid-state circuitry fuse 15 A
width of the enclosure	265 mm
height of the enclosure	151 mm
depth of the enclosure	91 mm
installation width	285 mm
mounting height	171 mm
fastening method	
● wall mounting	Yes
● standard rail mounting	Yes
● S7 rail mounting	No
fastening method	snaps onto DIN rail EN 60715 35x15 or keyhole mounting for hooking in to M4 screws
net weight	3.8 kg
number of cells	12
battery capacity	2.5 A·h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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