

## SIRIUS ENERGY STORAGE MODULE TECHNICAL DATA SHEET

Part Number: 3000-384-B-1C-TM-SD-A-X-DC-G | Version Date: October 2020



PERFORMANCE SPECIFICATIONS	Voltage (Nominal)	384 V <sub>dc</sub>
	Maximum Charge Voltage	432 V <sub>dc</sub>
	Discharge Cut-Off Voltage	367 V <sub>dc</sub>
	Total Energy	3000 WH
	Maximum Charge Rate	8 A
	Maximum Discharge Rate	8 A
ENVIRONMENTAL SPECIFICATIONS	Cell Operating Temperature <sup>1</sup>	-30 °C to 80 °C
	Operating Humidity	Non-Condensing
MECHANICAL SPECIFICATIONS	Dimensions (w × d × h) mm	458 x 523 x 376
	Weight (Kg)	78
	Module Casing Material	GI Powdered
	Terminal Type	HVIL 125A-S-1S
SMART FEATURES	Monitoring Data	Total Cell Voltage, Current, Temperatures, SOC and Energy
	Remote Monitoring	Via Sirius View App
	Communication and Connectivity	USB Port
	Alarm	Audible alarm in the event of Over/under- Voltage, Over-Current, Over Temperature
	Dry Contacts × 2	DIN Connector (Programmable <sup>7</sup> )

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SIRIUSVIEW SOFTWARE	Module Monitorin	g	Current, Voltage, Temperatures, Total Energy delivered, SOC, Graphs
	System Monitoring		Modules Monitoring (connected in parallel or series)
MODULE SERVICE LIFE	Projected Cycle Life <sup>2,3</sup>		1 million cycles
	Projected Calendar	<sup>-</sup> Life <sup>3,4</sup>	45 years
	Shelf Life <sup>5</sup>		10 years
	Warehousing		Can be stored at any SOC without affecting cycle life
SAFETY PERFORMANCE	Over/under voltage		Hardware protection, Module shut down
	Over Current		Hardware protection, Module shut down
	Over temperature		Hardware protection, Module shut down
	Additional Safety		32A 2P DC circuit breaker + 10A DC circuit breaker + 2 DC contactors
COMPLIANCE <sup>6</sup> INFORMATION	EN55032:2015, EN55024:2010, EN61000-4-2:2009, EN61000 EN61000:2008+A2:2010		
PRECAUTIONS	Alarm	In case of alarm, immediately rectify/attend to the cause of the alarm.	
	Physical Damage	In case the Module is physically damaged due to any event, do not install and energize the Module under any circumstances and contact your Reseller.	
	Short Circuit	Ensure precautions to prevent short-circuit under all circumstances.	
	Galvanic isolation	When connecting to external devices ensure that galvanic isolation does not exceed 1000V.	
	Charge/Discharge Current	Under no circumstances must the charge/discharge current exceed 8 A.	
	Charging Voltage	Under no circumstances must the charging voltage exceed 432 $V_{dc}$ for more than 60 seconds.	
	Charge Cycle	During charge cycle ensure never to exceed constant voltage of 432 $V_{dc}$ and constant current of 8 A.	
	Series Connection	Series connection is not allowed.	
	Parallel Connection	There is no limit on the number of Modules that can be connected in parallel.	



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	Series-Parallel Connection	Modules cannot be connected in Series-Parallel combination under any circumstance.
if they are continuously charge/discharge rate sp If the Module is to be o maximum charge/discha <sup>2</sup> Projected life of superca <sup>3</sup> Additional terms and co <sup>4</sup> Projected Calendar life of <sup>5</sup> Shelf life is the life of the <sup>6</sup> CE certification is compl <sup>7</sup> Programmable features	operated outside a ten ecified in this spec sheet perated continuously ou rge rate specified in the apacitor cells. Cycle life v anditions, including a limit of supercapacitor cells fr e Module (in years) from leted for supercapacitor can be activated to prog for reference only unless	gram for appropriate version of Sirius View software. s otherwise identified and may change without notice.