

SIRIUS ENERGY STORAGE MODULE TECHNICAL DATA SHEET

Part Number: 7100-48-B-3.2C-M-SD-A-X-X-FL | Version Date: August 2019



	Voltage (Nominal)	48 V _{dc}
PERFORMANCE SPECIFICATIONS	Maximum Charge Voltage	54 V _{dc}
	Discharge Cut-Off Voltage	44 V _{dc}
	Total Energy	7100 WH
	Maximum Charge Rate	500 A
	Maximum Discharge Rate	500 A
ENVIRONMENTAL SPECIFICATIONS	Cell Operating Temperature ¹	-30 °C to 80 °C
	Operating Humidity	Non-Condensing
MECHANICAL SPECIFICATIONS	Dimensions (w × d × h) mm	606 x 570 x 345
	Weight (Kg)	125
	Module Casing Material	Aluminum
	Terminal Type	2× Anderson Connector
SMART FEATURES	Monitoring Data	Total Cell Voltage, Individual Cell Voltages, 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

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SIRIUSVIEW SOFTWARE	Module Monitorin	g	Current, Voltage, Individual Cell Voltage, Temperatures, Total Energy delivered, SOC, Graphs
	System Monitoring		Modules Monitoring (connected in parallel or series)
MODULE SERVICE LIFE	Projected Cycle Life ^{2,3}		1 million cycles
	Projected Calendar Life ^{3,4}		45 years
	Shelf Life⁵		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		2 × 100A DC circuit breaker + DC contactor protection
COMPLIANCE ⁶ 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 500 A.	
	Charging Voltage	Under no circumstances must the charging voltage exceed 54 V_{dc} for more than 60 seconds.	
	Charge Cycle	During charge cycle ensure never to exceed constant voltage of 54 V_{dc} and constant current of 500 A.	
	Series Connection	series.	must be at 100% SOC before connecting in of 8 Modules with Module Combiner can be series.

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		Please consult your Reseller when connecting the Modules in series.	
	Parallel Connection	There is no limit on the number of Modules that can be connected in parallel.	
	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 ² Projected life of superca ³ Additional terms and co ⁴ Projected Calendar life of ⁵ Shelf life is the life of th ⁶ CE certification is compl	operated outside a tem ecified in this spec sheet. perated continuously ou rge rate specified in the s apacitor cells. Cycle life w onditions, including a limi- of supercapacitor cells from e module (in years) from leted for supercapacitor of for reference only unless	otherwise identified and may change without notice.	