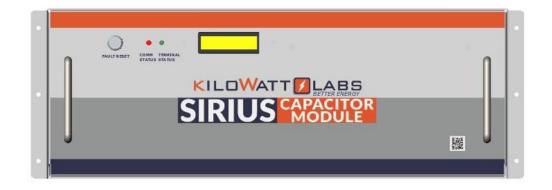


SIRIUS ENERGY STORAGE MODULE TECHNICAL DATA SHEET

Part Number: 3000-24-A-0.8C-M-SD-A-X-X-CS | Version Date: June 2020



	Voltage (Nominal)	24 V _{dc}
PERFORMANCE SPECIFICATIONS	Maximum Charge Voltage	27 V _{dc}
	Discharge Cut-Off Voltage	22 V _{dc}
	Total Energy	3000 WH
	Maximum Charge Rate	100 A
	Maximum Discharge Rate	100 A
ENVIRONMENTAL SPECIFICATIONS	Cell Operating Temperature ¹	-30 °C to 80 °C
	Operating Humidity	Non-Condensing
MECHANICAL SPECIFICATIONS	Dimensions (w × d × h) mm	565 x 545 x 210
	Weight (Kg)	55 Kg
	Module Casing Material	Aluminum
	Terminal Type	Anderson Connector x1
SMART FEATURES	Monitoring Data	Total Cell Voltage, Individual Cell Voltages, Current, Temperatures, SOC and Energy
	Remote Monitoring	Via Sirius View App
	Communication and Connectivity	Module Combiner
	Alarm	Audible alarm in the event of Over/under- Voltage, Over-Current, Over Temperature
SIRIUSVIEW SOFTWARE	Module Monitoring	Current, Voltage, Individual Cell Voltage, Temperatures, Total Energy delivered, SOC, Graphs
	System Monitoring	Modules Monitoring (connected in parallel or series)

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MODULE SERVICE LIFE	Projected Cycle Life	e ^{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		100A DC circuit breaker + 20A bypass 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, i alarm.	mmediately rectify/attend to the cause of the
	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 100A.	
	Charging Voltage	Under no circumstances must the charging voltage exceed 27 V_{dc} for more than 60 seconds.	
	Charge Cycle	During charge cycle ensure never to exceed constant voltage of 27 V_{dc} and constant current of 100A.	
	Series Connection	 All Modules must be at 100% SOC before connecting in series. A maximum of 16 Modules with Module Combiner can be connected in series. Please consult your Reseller when connecting the Modules in series. 	
	Parallel Connection	There is no limi connected in para	t on the number of Modules that can be illel.

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	Series-Parallel Connection	Modules cannot be connected in Series-Parallel combination under any circumstance.	
¹ The temperature range indicates the range in which the supercapacitor cells can operate. The performance of the cells may variif they are continuously operated outside a temperature range of -10°C to 55°C, and/or at C-rates higher than the maximum charge/discharge rate specified in this spec sheet. The operating temperature range of the Module varies based on the application of the Module is to be operated continuously outside a temperature range of -10°C to 55°C, and/or at C-rates higher than the maximum charge/discharge rate specified in the spec sheet, please consult Kilowatt Labs or its Reseller prior to deploying. ² Projected life of supercapacitor cells. Cycle life will vary if cycled more than 4 times a day. ³ Additional terms and conditions, including a limited warranty, will apply at the time of purchase. ⁴ Projected Calendar life of supercapacitor cells from the date of first operation. ⁵ Shelf life is the life of the Module (in years) from the date it is manufactured to the time it is first operated. ⁶ CE certification is completed for supercapacitor cells. Product dimensions are for reference only unless otherwise identified and may change without notice. For critical applications, please contact your Reseller.			