

SIRIUS ENERGY STORAGE MODULE TECHNICAL DATA SHEET

Part Number: 3550-192-B-2C-TM-SD-A-G Version Date: OCTOBER 2019

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PERFORMANCE	Voltage (Nominal)		192 V _{dc}
	Maximum Charge Voltage		216 V _{dc}
	Discharge Cut-Off Voltage		176 V _{dc}
SPECIFICATIONS	Total Energy		3550 Wh
	Maximum Charge Rate		37 A
	Maximum Discharge Rate		37 A
ENVIRONMENTAL	Cell Operating Temperature ¹		-30 °C to 80 °C
SPECIFICATIONS	Operating Humidity		Non-Condensing
MECHANICAL SPECIFICATIONS	Dimensions (w × d × h)		413 mmx 455mm x 352mm
	Module Casing Material		Aluminum
	Terminal Type		F12
SMART FEATURES	Monitoring Data		Total Cell Voltage, Current, Temperatures, SOC and Energy
	Remote control (optional)		Via Sirius Remote Control
	Communication and Connectivity		USB
	Alarm		Audible alarm in the event of Over/under-
			Voltage, Over-Current, Over Temperature
	Module Monitoring		Current, Voltage, Individual Cell Voltage,
CIDILICY/IEW/			Temperatures, Total Energy delivered, SOC,
SIRIUSVIEW SOFTWARE			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 Life ⁵		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×DC circuit breaker+ DC Contactor
COMPLIANCE ⁶	EN55032:2015, EN55024:2010,		
INFORMATION			4-2:2009, EN61000
	EN61000:2008+A		
PRECAUTIONS	Alarm Physical Damage	In case of alarm, immediately rectify/attend to the cause of the	
		alarm.	
		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 Current	t Under no circumstances must the charge current exceed 37 A.	



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Discharge	Under no circumstances must the discharge current exceed 37A.	
Current		
Charging Voltage	Under no circumstances must the charging voltage exceed 216	
Charging Voltage	V_{dc} for more than 60 seconds.	
Chargo Cuelo	During charge cycle ensure never to exceed constant voltage of	
Charge Cycle	$216V_{dc}$ and constant current of 37A.	
Series Connection	 All modules must be at 100% SOC before connecting in series. A maximum of 3 modules with Module Combiner can be connected in series. Please consult your Reseller when connecting the modules in series. Under no circumstances should more than 3 modules be connected in series without the Module Combiner. 	
Parallel	There is no limit on the number of Modules that can be	
Connection	connected in parallel.	
Series-Parallel	Modules cannot be connected in Series-Parallel combination	
Connection	under any circumstance.	

¹The temperature range indicates the range in which the supercapacitor cells can operate. The performance of the cells may vary if 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. If 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.

Product dimensions are for reference only unless otherwise identified and may change without notice.

For critical applications, please contact your Reseller.

²Projected life of supercapacitor cells. Cycle life will vary if cycled more than 4 times a day.

³Additional terms and conditions, including a limited warranty, will apply at the time of purchase.

⁴Projected Calendar life of supercapacitor cells from the date of first operation.

⁵Shelf life is the life of the module (in years) from the date it is manufactured to the time it is first operated

⁶CE certification is completed for supercapacitor cells.