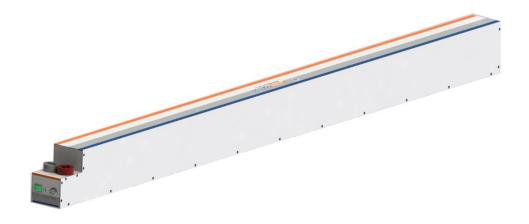


SIRIUS ENERGY STORAGE MODULE TECHNICAL DATA SHEET

Part Number: 1000-12-B-0.6C-A-G Version Date: OCTOBER 2019



	Voltage (Nominal)		12 V _{dc}	
PERFORMANCE SPECIFICATIONS			13.5 V _{dc}	
	Maximum Charge Voltage Discharge Cut-Off Voltage		11 V _{dc}	
			11000 Wh	
	Total Energy Maximum Charge Rate		50 A	
			50 A	
510 //DO114 451/T41	Maximum Discharge Rate Cell Operating Temperature ¹		-30 °C to 80 °C	
ENVIRONMENTAL		•		
SPECIFICATIONS	Operating Humidity		Non-Condensing	
MECHANICAL SPECIFICATIONS	Dimensions (w × d × h)		1560 mm ×78 mm×117 mm	
	Weight		23 kg Approx.	
	Module Casing Material		Aluminum	
	Terminal Type		F12	
SMART FEATURES	Alarm		Audible alarm in the event of Over/under-	
			Voltage, Over-Current, Over Temperature	
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	
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.		
	(-alvanic icolation		to external devices ensure that galvanic	
		isolation does not exceed 1000V.		



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	Charge/Discharge	Under no circumstances must the charge/discharge current		
	Current	exceed 50A.		
	Charging Voltage	Under no circumstances must the charging voltage exceed 13.5		
		V _{dc} for more than 60 seconds.		
	Charge Cycle	During charge cycle ensure never to exceed constant voltage of		
		13.5 V _{dc} and constant current of 50A.		
		All Modules must be at 100% SOC before connecting in		
		series.		
	Series	A maximum of 15 Modules can be connected in series.		
	Connection	Please consult your Reseller when connecting the Modules in		
		series. Under no circumstances should more than 15 Modules		
		be connected in series.		
	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.		
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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.