

SIRIUS ENERGY STORAGE MODULE TECHNICAL DATA SHEET

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

	Valtage (Naminal)		12 V _{dc}
	Voltage (Nominal)		12 V _{dc}
PERFORMANCE SPECIFICATIONS	Maximum Charge Voltage Discharge Cut-Off Voltage		15.5 V _{dc}
	Total Energy		1000 Wh
SPECIFICATIONS	Maximum Charge F	Rate	50 A
	Maximum Discharge		50 A
ENVIRONMENTAL	Cell Operating Temperature ¹		-30 °C to 80 °C
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	Projected Cycle Life ^{2,3}		1 million cycles
	Projected Cycle Life Projected Calendar Life ^{3,4}		45 years
	Shelf Life ⁵		10 years
LIFE			Can be stored at any SOC without affecting
	Warehousing		cycle life
COMPLIANCE ⁶	EN55032:2015, EN55024:2010, EN61000-4-2:2009, EN61000 EN61000:2008+A2:2010		
INFORMATION			
PRECAUTIONS	Alarm		mmediately rectify/attend to the cause of the
		alarm.	la is abusically demograd due to any event de
	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	
	Galvanic isolation	isolation does not exceed 1000V.	
	Charge/Discharge		
	Current	exceed 50A.	
	Charging Voltage Charge Cycle		stances must the charging voltage exceed 13.5
		V _{dc} for more than 60 seconds.	
		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.	idst be at 100% 50c before connecting in
	Series Connection	 A maximum of 15 Modules can be connected in series. 	
		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.	



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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.