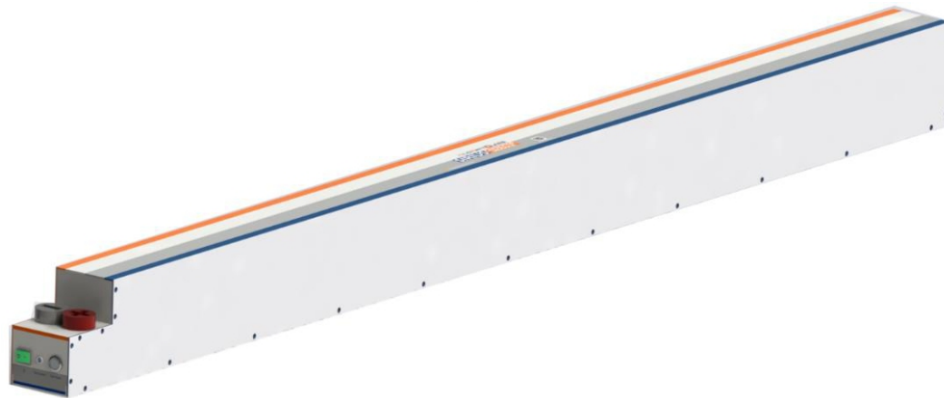


**SIRIUS ENERGY STORAGE MODULE
TECHNICAL DATA SHEET**

Part Number: 1000-12-B-0.6C-X-X-A-X-X-SL | Version Date: August 2019



PERFORMANCE SPECIFICATIONS	Voltage (Nominal)	12 V _{dc}
	Maximum Charge Voltage	13.5 V _{dc}
	Discharge Cut-Off Voltage	11 V _{dc}
	Total Energy	1000 WH
	Maximum Charge Rate	50 A
	Maximum Discharge Rate	50 A
ENVIRONMENTAL SPECIFICATIONS	Cell Operating Temperature ¹	-30 °C to 80 °C
	Operating Humidity	Non-Condensing
MECHANICAL SPECIFICATIONS	Dimensions (w × d × h) mm	1560 × 78 × 117
	Weight (Kg)	23
	Module Casing Material	Aluminum
	Terminal Type	F08
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 Life ⁵	10 years
	Warehousing	Can be stored at any SOC without affecting cycle life
COMPLIANCE⁶ INFORMATION	EN55032:2015, EN55024:2010, EN61000-4-2:2009, EN61000 EN61000:2008+A2:2010	

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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 50 A.
	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 50 A.
	Series Connection	<ul style="list-style-type: none"> • All Modules must be at 100% SOC before connecting in series. • 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 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.	

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.

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.

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

For critical applications, please contact your Reseller.

☎ Toll Free No. 1800 309 7880

📍 Corp. Office (IND): B-39, Sector 59, Noida, U.P., INDIA - 201301 📍 H.Q.: #134, Buckingham Palace Road, London, England - SW1W9SA

✉ info@invergypowersupply.com 🌐 www.invergypowersupply.com