



# Muscat Super Lithium Ion Capacitor Series





## Overview

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A lithium-ion capacitor (LIC or LiC) is a hybrid type of classified as a type of . It is called a hybrid because the anode is the same as those used in lithium-ion batteries and the cathode is the same as those used in supercapacitors. Activated is typically used as the . The of the LIC consists of carbon material which is often pre-doped with ions. This pre-doping process lo.

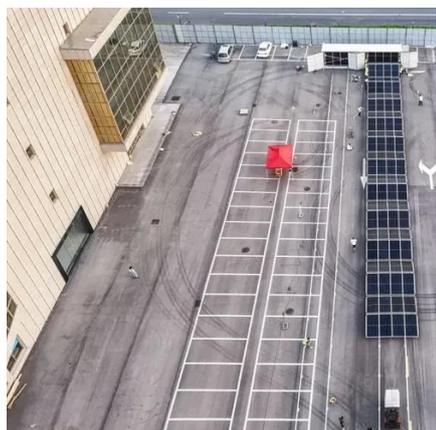


## Muscat Super Lithium Ion Capacitor Series



### Front runner of Hybrid Super Capacitor | Musashi Energy Solutions Co., Ltd.

HSC is a sustainable power storage device that features high output, long life, and high safety. Musashi is working to utilize HSC in fields such as SDV (Self-Driving Vehicle), fuel cells, and renewable energy.



### Manufacturer of Lithium-Ion Capacitors and Hybrid Lithium-Ion

These novel energy storage devices are capable of rapid charge-discharge rates and extended cycle life for various energy storage and pulsed power supply applications in electronics.



### Lithium-ion capacitor

Overview History Concept Properties Comparison to other technologies Applications

A lithium-ion capacitor (LIC or LiC) is a hybrid type of capacitor classified as a type of supercapacitor. It is called a hybrid because the anode is the same as those used in lithium-ion batteries and the cathode is the same as those used in supercapacitors. Activated carbon is typically used as the cathode. The anode of the LIC consists of carbon material which is often pre-doped with lithium ions. This pre-doping process lo...

### Hybrid supercapacitors combine proprietary materials to achieve ...



Both series have a maximum working voltage of 3.8 V, an operating temperature range of -15° C to +70° C/85° C (3.5V) for HS and -25° C to +70° C for HSL and HSH, and ultra-low ESR. Individual cells can be in series or ...



### Hybrid Super Capacitor Products | Products , Musashi Energy

...

It is a highly safe product with low energy loss, with cells arranged in series (4 to 12 cells), a low power consumption cell voltage balance circuit, and an overcharge / discharge prevention detection circuit.



### Technology: Musashi Energy Solutions Hybrid SuperCapacitors

Operates at higher working voltages and in extended temperature environments. Hybrid SuperCapacitors combine the benefits and mitigate the shortcomings of EDLCs/supercapacitors and lithium-ion battery ...



### Lithium-Ion SuperCapacitor Cells, Modules, Cables & More

High accurate inter-cell voltage balance control. Enables fast charge/discharge at high current. High energy density for compact light weight equipment. Higher operating voltage. Extremely low leakage.





## Products: Musashi Energy Solutions Hybrid ...

Hybrid SuperCapacitor cells, modules, and systems integrate the high energy density of lithium-ion batteries.



## Muscat energy storage supercapacitor brand

Supercapacitors, also known as ultracapacitors or electrochemical capacitors, represent an emerging energy storage technology with the potential to complement or potentially supplant batteries in specific applications.

## **Lithium-ion capacitor**

A lithium-ion capacitor (LIC or LiC) is a hybrid type of capacitor classified as a type of supercapacitor. It is called a hybrid because the anode is the same as those used in lithium-ion batteries and the ...

## **ESS**





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