

# **Muscat Super Lithium Ion Capacitor Series**





## Overview

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What are Musashi energy solutions' lithium-ion capacitor cells?

Musashi Energy Solutions' lithium-ion capacitor cells are energy storage devices with high energy density and output density, and can charge and discharge large currents. While ensuring high safety, it has features such as high repetitive charge / discharge characteristics, small self-discharge, and a wide operating temperature range.

What is hybrid super capacitor (HSC)?

Hybrid Super Capacitor (HSC) is a new electric storage device that combines high power density and high energy density. Compared to similar electricity storage devices, electrical double layer capacitor (EDLC) and lithium ion battery (LIB), we introduce its characteristics. What is a Hybrid Super Capacitor (HSC)?

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Why did Musashi develop a hybrid capacitor?

Musashi's adoption of the world's first prismatic design for a hybrid capacitor has resulted in exceptional durability and much higher heat dissipation efficiency than ordinary cylindrical types.

What is a hybrid supercapacitor cell?

Our Hybrid SuperCapacitor cells combine the power density, high cycle capabilities and long life of electric double-layer capacitors (EDLC) construction with higher energy density approaching that of lithium-ion battery (LIB) technology. This without the safety concerns of a thermal runaway event of LIBs. Get Ready for Next-Level Power Density!



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### [Front runner of Hybrid Super Capacitor|Musashi Energy ...](#)

Musashi Energy Solutions develops, manufactures, and sells hybrid super capacitors (HSCs), which are attracting attention for the realization of a carbon-neutral society. ...

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### [What is Hybrid Super Capacitor?\\_ Musashi Energy Solutions ...](#)

Configuration and characteristics of various electric storage devices Hybrid Super Capacitor (HSC) is a new electric storage device that combines high power density and high ...

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### [Industries: Musashi Energy Solutions Hybrid ...](#)

In EV applications, combining our HSCs with lithium-ion-based batteries provides better battery utilization for longer EV range or allows for downsized batteries, thus reducing costs. Our





HSCs are also an excellent energy ...

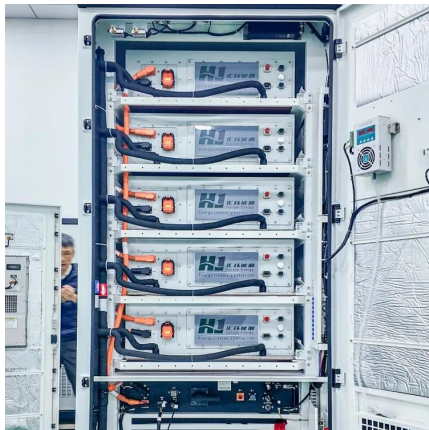
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### [Principle of Hybrid Super Capacitor](#)

Principle of Hybrid Super Capacitor Hybrid structure of HSC Hybrid Super Capacitors (HSC) have a hybrid structure that uses the same activated carbon as electric double layer capacitors for the positive ...

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### [Hybrid Super Capacitor Products|Prismatic Cell , Musashi ...](#)

We adopted the world's first prismatic type as a Hybrid Super Capacitor. Excellent robustness, we offer products with higher heat dissipation efficiency and mountability than ...

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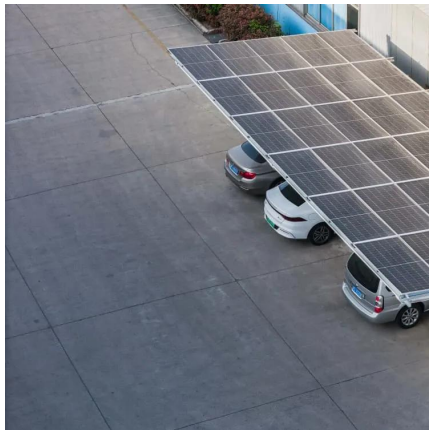




## [Hybrid Super Capacitor Products|Products , Musashi ...](#)

Product list of Hybrid Super Capacitors Musashi Energy Solutions develops and sells LICs in shape of laminate-cell, prismatic-cell, and in module. Musashi Energy Solutions' ...

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## [Hybrid Super Capacitor Products|Prismatic ...](#)

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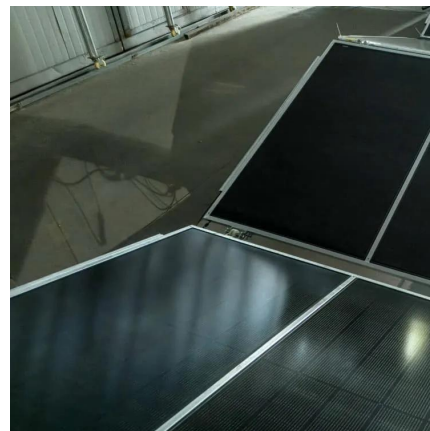
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## [The Rise of Hybrid Supercapacitors: A Key ...](#)

HSCs use activated carbon for the positive electrode, similar to electric double-layer capacitors, and carbon materials for the negative electrode, akin to lithium-ion batteries. Through a unique design involving ...

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## [The Rise of Hybrid Supercapacitors: A Key Device for Next ...](#)

HSCs use activated carbon for the positive electrode, similar to electric double-layer capacitors, and carbon materials for the negative electrode, akin to lithium-ion batteries. ...

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