

# Super Silicon Capacitor

**SMART BMS PROTECTION**



**OVER-CHARGE**

**SHORT CIRCUIT**

**OVER-DISCHARGE**

**OVER-CURRENT**

**CELL BALANCE**

**12V 100Ah**  
LiFePO4 Battery  
Lithium Iron Phosphate Deep Cycle Battery  
Made in China



## Super Silicon Capacitor

---



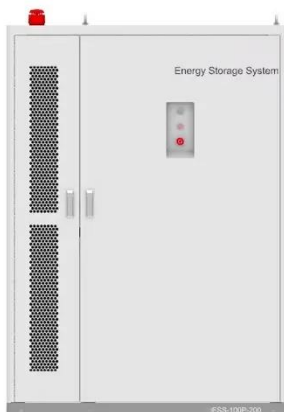
### New Silicon Capacitor Solutions with Over 1mm

Due to the increasing demand for Artificial Intelligence (AI) technology and technological advancements, there is an industry trend of integrating multiple dies, including High Bandwidth ...

---

### Silicon-Capacitors\_Catalog-Rev1.60

Our silicon capacitors technology features up to 10 times higher reliability than alternative capacitors technologies, mainly obtained thanks to the oxide generated during the high temperature ...



### Silicon Capacitors , Murata Manufacturing Co., Ltd.

Murata high-density silicon capacitors are developed with a semiconductor MOS process and are using the third dimension to substantially increase the capacitor surface and thus its ...

---

### Silicon and Silicon Wafer Based Integrated ...

Explore the features of silicon-based capacitors: high capacitance value, stability, and reliability for demanding applications.



 LFP 12V 200Ah



### SuperCapacitors (Double Layer Capacitors) , KYOCERA AVX

SuperCapacitors or Double Layer Capacitors have rapidly become recognized, not only as an excellent compromise between "electronic" or "dielectric" capacitors such as ceramic, tantalum, film and ...

### Next-Generation Supercapacitors: Advances in Binder-Free ...

Supercapacitors represent a transformative energy storage technology, bridging the gap between conventional capacitors and batteries through their exceptional power density, rapid ...



### Silicon Capacitors

This technology platform for silicon capacitors is suitable for system-in-package (SiP) integration as well as for



embedding in high-quality PCBs and interposer integration. The capacitor production is based ...

## Supercapacitor Technical Guide

Supercapacitor Construction What makes supercapacitors different from other capacitor types are the electrodes used in these capacitors. Supercapacitors are based on a carbon ...



## Silicon Based Supercapacitors Evolution to Integrated ...

Surface treatment/modification - Increase conductivity and pseudo-capacitance, pasivate surface n/p-doping of porous silicon Atomic layer deposition of titanium nitride or other transition ...

## ELOHIM Develops Ultra-small Size, High-density Silicon ...

ELOHIM, a South Korean high-tech silicon capacitor semiconductor R& D company, has partnered with a global company to develop an ultra-small size, high-density

silicon capacitor for 5G ...



---

## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://www.scelto.co.za>

