



IMK CONTAINERS

Russian St Petersburg high temperature supercapacitor manufacturer





Overview

What is a supercapacitor?

A supercapacitor, surpassing traditional capacitors in capacitance, serves as a high-efficiency energy storage device. It utilizes the electrical double layer formation between electrode and electrolyte for charge storage, enabling swift charge and discharge cycles without relying on chemical reactions.

Who are the top ranked supercapacitor manufacturers?

Also, please take a look at the list of 19 supercapacitor manufacturers and their company rankings. Here are the top-ranked supercapacitor companies as of October, 2025: 1.SPEL TECHNOLOGIES PRIVATE LIMITED, 2.Taiwan Zhifengwei Technology Co., Ltd., 3.CDE. What Is a Supercapacitor?

What Is a Supercapacitor?

What is the operating temperature of a supercapacitor?

Operating temperature range from -40°C to +85°C and a voltage tolerance range from 3.6V to 6.3V. These supercapacitors boast an energy density that is 8 to 10 times higher than that of EDLC (Electrochemical Double Layer Capacitors). They can withstand voltages of up to 4.2V.

What is a supercapacitor cell?

The supercapacitor cell, also known as the molecular energy storage (MES), uses acetonitrile as electrolyte, where ionic salts are dissolved, which ensures an operating voltage of up to 3V per cell. The system of protection of the frequency-controlled drive from TEEMP as an insurance against accidents and losses.



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Supercapacitors or ultracapacitors offer unique advantages like ultrafast charging, reliable operation spanning millions of duty cycles alongside wide operating temperatures and collaborative integration with ...

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[19 Supercapacitor Manufacturers in 2025](#)

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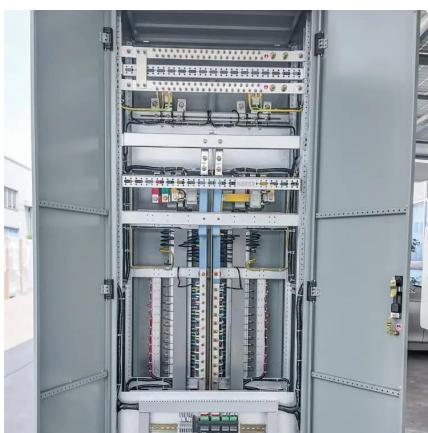
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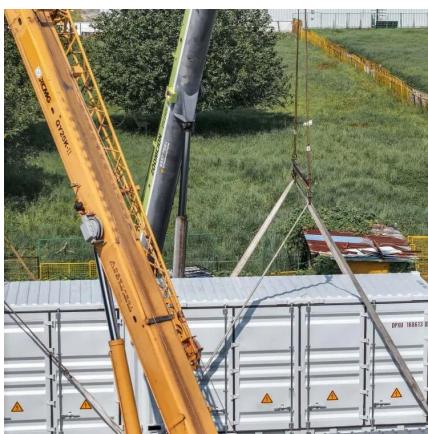
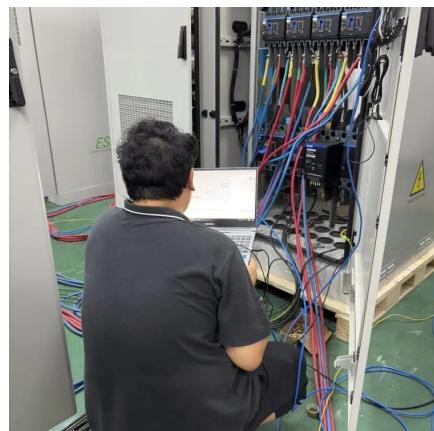
SunContainer Innovations - St. Petersburg has emerged as a hub for advanced energy storage solutions, particularly in supercapacitor technology. This article explores how local ...

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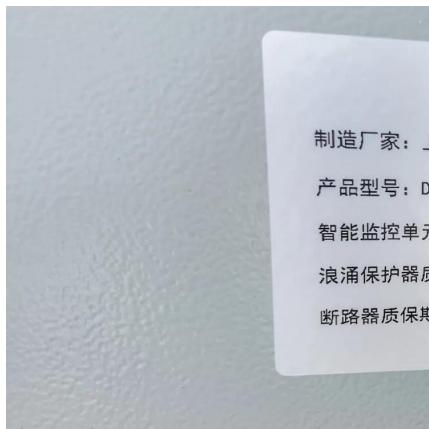
Top 10 Supercapacitor Manufacturers in the world



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