

Supercapacitor Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Product Type (Double-Layer Capacitor, Pseudo capacitors, and Hybrid Capacitors), Module Type (Less Than 10 Volts Modules, 10 Volts to 25 Volts Modules, 25 Volts to 50 Volts Modules, 50 Volts to 100 Volts Modules, and Above 100 Volts Modules), Material (Activated carbon, Carbide Derived Carbon, Carbon Aerogel, and Others), and Application (Automotive, Industrial, Energy, Consumer Electronics, and Aerospace & Defense), By Region, Competition 2018-2028

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Abstracts

Global Supercapacitor Market was valued at USD 2.78 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 16.42% through 2028. A supercapacitor, also known as an ultracapacitor or electrochemical capacitor, is an energy storage device that bridges the gap between conventional capacitors and batteries. It stores and releases energy by the separation of electrical charges across an electrolyte and an electrically conductive material, typically made of activated carbon. Supercapacitors have the ability to store and deliver larger amounts of energy compared to traditional capacitors, while offering faster charge and discharge cycles than batteries. The Global Supercapacitor Market refers to the industry and market landscape surrounding the production, distribution, and use of supercapacitors for various applications. These applications include but are not limited to: Energy Storage:

Supercapacitors can store energy and release it rapidly, making them suitable for applications requiring short bursts of power, such as regenerative braking systems in vehicles and backup power systems. **Consumer Electronics:** Supercapacitors can be used in electronic devices like smartphones, wearables, and laptops to provide quick bursts of power for functions like camera flashes and data retention during power loss. **Renewable Energy:** Supercapacitors can be integrated into renewable energy systems, such as solar or wind power installations, to provide short-term energy storage and manage fluctuations in energy output.

Key Market Drivers

The use of Global supercapacitors is expected to rise internationally due to rising acceptance by the automotive industry & rising customer preference for electric /hybrid electric (HEV) vehicles.

A high-capacity battery with a capacitance value significantly higher than conventional capacitors but with lower voltage restrictions is known as a supercapacitor (SC), also known as an ultracapacitor. It eliminates the vacuum left by rechargeable batteries and electrolytic capacitors. In comparison to electrolytic capacitors, it typically stores 10 to 100 times more energy per unit volume or mass, accepts and delivers charge considerably more quickly, and can withstand many more charge and discharge cycles than rechargeable batteries. The major function of supercapacitors is utilizing reversible ion adsorption and desorption at the interfaces of electrode materials and electrolytes, supercapacitors (SCs) are electrochemical energy storage devices that store, and release energy. Supercapacitors are utilized in applications that require numerous rapid charge/discharge cycles rather than long-term compact energy storage, such as regenerative braking, short-term energy storage, or burst-mode power delivery in cars, buses, trains, cranes, and elevators. Smaller devices are utilized as a static random-access memory power backup (SRAM).

Growing Trend of Digital Gadgets Fueling the Market Growth in the Forecast Period

Traditional electric car batteries are being replaced by supercapacitors because of their quick charging and temperature stability. Supercapacitors are also more flexible than regular batteries. The high demand for a stable power supply for applications such as GPS, portable media players, laptops, and mobile devices, is an emerging trend in the market studied.

On the basis of current supercapacitor technology, more investigation is being done into

the creation of inexpensive and creative solutions. It underlines the need to lower the cost of producing carbon-based electrodes and the dependence on essential components while providing a more cost-effective and environmentally friendly alternative to current versions. For instance, scientists at Imperial College London and University College London (UCL) have recently created an electrode material for supercapacitors that is more energy-dense and environmentally friendly, paving the way for increased market adoption of high-power, quick-charging electric vehicle technology.

The growth of supercapacitors in the automotive industry has also been pushed by numerous market manufacturers who observed a significant increase in sales in the electric car sector. For instance, EV volumes predicted sales of 10,6 million for the entire year of 2022, representing a jump of 57% over 2021, with BEVs reaching 8 million units and PHEVs 2,6 million units. Also, it was anticipated that by the end of 2022, there will be almost 27 million EVs used in, including light vehicles, 70% BEVs, and 30% PHEVs.

China's Growing Electric Automobiles Industry

To reach the carbon neutrality goals by 2060, China's demand for supercapacitors is anticipated to increase at one of the fastest rates in the world for a very long time. The entire market share of supercapacitors in China would keep growing as a result of the rising demand in downstream markets, such as electric automobiles. Additionally, Several new players have entered the market, supported by government policy.

The automobile sector in China is the high degree of influence, and the nation has grown increasingly significant in the global automotive market. The government recognizes the automotive sector, which includes the auto parts industry, as one of the foundational industries of the economy. According to the Central Government of China, Nation would produce 35 million cars by 2025, meeting the demand for supercapacitors. China is considered one of the top adopters of electric vehicles, which are becoming more and more popular. The 13th Five-Year Plan for China's transportation industry promotes the development of green mobility alternatives like hybrid and electric vehicles.

Japanese Government Moving Towards Electric or Hybrid Models

Moreover, one of the fundamental infrastructures that bolstered the Japanese economy and developed alongside the expansion of other industries is transportation. In addition, Japan is moving in the direction of electric automobiles. For instance, Toyota, the major

automaker in the nation, collaborated with Mazda, another major participant, to develop electric vehicle technologies for electric cars, including minivans, passenger cars, SUVs, and light trucks. It caters to the demand for supercapacitors.

By 2050, the Japanese government wanted all new cars sold in the country to be electric or hybrid models. The nation intends to provide subsidies to accelerate the private sector's development of batteries and electric vehicle motors. The government is aiming for a reduction in greenhouse gas emissions from vehicles, thus Japanese bus and truck manufacturers are concentrating more on producing electric cars. As an illustration, Hino Motors Ltd. unveiled its first diesel-electric hybrid truck model.

Key Market Challenges

High Cost of Supercapacitors/Ultracapacitors Hinders the Market's Expansion

The high cost of supercapacitors and ultracapacitors hinders the market's expansion and limits their use in a wide range of possible applications. The materials used in the coating of electrodes, like activated carbons, considerably contribute to the high cost of supercapacitors as a whole. Grade activated carbons for supercapacitors are projected to cost over USD 15 per kg, demonstrating the high cost of the final products. Supercapacitors are expensive, which has an impact on the amount they cost to adopt in term of per Watt-hour. According to research, the cost of non-aqueous supercapacitors can reach USD 2400/KWh, which is substantially more expensive than the price of conventional and light ion batteries.

Key Market Trends

Growing Demand for Energy Storage Solutions

The need for efficient energy storage solutions, both for portable electronics and larger-scale applications like renewable energy integration and electric transportation, was driving the demand for supercapacitors. Their ability to provide quick bursts of power and high cycle life made them attractive for various energy storage needs. Rise in Electric Vehicles (EVs) and Supercapacitors were being explored as complementary components in electric and hybrid vehicles. They were used to capture and release energy during braking and acceleration, improving overall efficiency and extending the life of batteries by managing high-power demands. Integration with Renewable Energy Systems: Supercapacitors were being incorporated into renewable energy systems, such as solar and wind installations, to help manage fluctuations in energy generation

and enhance grid stability. They provided rapid response times to balance energy supply and demand. Ongoing research aimed at developing new materials and manufacturing techniques for supercapacitors was driving improvements in their energy density, power density, and overall performance. Nanomaterials and graphene were particularly promising areas of exploration.

Miniaturization for Wearable Electronics

The trend toward smaller and more efficient wearable electronics was pushing the development of compact and lightweight energy storage solutions. Supercapacitors were being integrated into wearables to provide quick energy bursts without adding significant weight. As the demand for energy storage solutions continued to grow, many companies were investing in research and development to enhance supercapacitor technology. This included improving the efficiency of energy storage, reducing internal resistance, and extending cycle life. **Focus on Environmental Sustainability:** Supercapacitors are generally considered more environmentally friendly than traditional batteries due to their use of non-toxic materials and potential for recycling. As environmental concerns gained prominence, the market saw increased interest in sustainable energy storage solutions. **Integration with Internet of Things (IoT) Devices:** Supercapacitors were finding applications in IoT devices where they provided quick energy bursts for sensor readings, data transmission, and maintaining device functionality during power interruptions. Companies in the supercapacitor market were forming partnerships and collaborations to combine expertise and resources for more innovative and comprehensive energy storage solutions.

Segmental Insights

Product Type Insights

Pseudo capacitors represented the largest segment due to their ability to store electrical energy by transferring electronic charges between electrode and electrolyte through Pseudo capacitors. In addition, the growing demand for pseudo capacitors, which require both high energy and high power, is positively impacting the market.

Material Insights

Carbon and metal oxide held the largest market share as it hinders the manufacturing of various supercapacitors of attractive performance over a wide voltage window. In addition, the growing demand for carbon and metal oxide-based supercapacitors

includes batteries with higher capacity, better lifetime and reliability, which will have a positive impact on the market.

Module Type Insights

Below 25V supercapacitors held the largest market as these modules are available in various versions and are considered suitable for applications requiring pulsed power and small capacitance. They have a very low equivalent resistance and a long service life, which ensures minimal maintenance in the systems used. Additionally, the market will be positively influenced by the growing demand for these modules in automatic meter reading applications that require compact and efficient energy storage.

Regional Insights

The Asia Pacific region has established itself as the leader in the Global Supercapacitor Market with a significant revenue share in 2022 . In China, demand for supercapacitors is expected to grow at one of the fastest rates in the world for a long time to achieve carbon neutrality goals by 2060. Benefiting from increased demand in downstream markets such as electric vehicles, the market share of supercapacitors in China will continue to grow . With the support of government policies, many new players have established themselves in the market.

Key Market Players

Maxwell Technologies

Skeleton Technologies

Nesscap Energy (part of Maxwell Technologies)

Panasonic Corporation:

CAP-XX

Nippon Chemi-Con Corporation

Ioxus (acquired by Eaton)

Yunasko

Elton Super Capacitor

VINATech

Report Scope:

In this report, the Global Supercapacitor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Supercapacitor Market, By Product Type:

Double-Layer Capacitor

Pseudo capacitors

Hybrid Capacitors

Global Supercapacitor Market, By Modular Type:

Less Than 10 Volts Modules

10 Volts to 25 Volts Modules

25 Volts to 50 Volts Modules

50 Volts to 100 Volts Modules

Above 100 Volts Modules

Global Supercapacitor Market, By Material:

Activated Carbon

Carbide Derived Carbon

Carbon Aerogel

Others

Global Supercapacitor Market, By Application:

Automotive

Industrial

Energy

Consumer Electronics

Aerospace & Defense

Global Supercapacitor Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Supercapacitor Market.

Available Customizations:

Global Supercapacitor Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Supercapacitor Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Product Typ...

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL SUPERCAPACITOR MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product Type (Double-Layer Capacitor, Pseudo capacitors, and Hybrid Capacitors)
 - 5.2.2. By Module Type (Less Than 10 Volts Modules, 10 Volts to 25 Volts Modules, 25 Volts to 50 Volts Modules, 50 Volts to 100 Volts Modules, and Above 100 Volts Modules)
 - 5.2.3. By Material (Activated carbon, Carbide Derived Carbon, Carbon Aerogel, and Others)
 - 5.2.4. By Application (Automotive, Industrial, Energy, Consumer Electronics, and Aerospace & Defense)
 - 5.2.5. By Region

5.3. By Company (2022)

5.4. Market Map

6. NORTH AMERICA SUPERCAPACITOR MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product Type

6.2.2. By Module Type

6.2.3. By Material

6.2.4. By Application

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Supercapacitor Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product Type

6.3.1.2.2. By Module Type

6.3.1.2.3. By Material

6.3.1.2.4. By Application

6.3.2. Canada Supercapacitor Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product Type

6.3.2.2.2. By Module Type

6.3.2.2.3. By Material

6.3.2.2.4. By Application

6.3.3. Mexico Supercapacitor Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Product Type

6.3.3.2.2. By Module Type

6.3.3.2.3. By Material

6.3.3.2.4. By Application

7. ASIA-PACIFIC SUPERCAPACITOR MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Product Type

7.2.2. By Module Type

7.2.3. By Material

7.2.4. By Application

7.2.5. By Country

7.3. Asia-Pacific: Country Analysis

7.3.1. China Supercapacitor Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Product Type

7.3.1.2.2. By Module Type

7.3.1.2.3. By Material

7.3.1.2.4. By Application

7.3.2. India Supercapacitor Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Product Type

7.3.2.2.2. By Module Type

7.3.2.2.3. By Material

7.3.2.2.4. By Application

7.3.3. Japan Supercapacitor Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Product Type

7.3.3.2.2. By Module Type

7.3.3.2.3. By Material

7.3.3.2.4. By Application

7.3.4. South Korea Supercapacitor Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

- 7.3.4.2.1. By Product Type
- 7.3.4.2.2. By Module Type
- 7.3.4.2.3. By Material
- 7.3.4.2.4. By Application
- 7.3.5. Indonesia Supercapacitor Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Product Type
 - 7.3.5.2.2. By Module Type
 - 7.3.5.2.3. By Material
 - 7.3.5.2.4. By Application

8. EUROPE SUPERCAPACITOR MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product Type
 - 8.2.2. By Module Type
 - 8.2.3. By Material
 - 8.2.4. By Application
 - 8.2.5. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Supercapacitor Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product Type
 - 8.3.1.2.2. By Module Type
 - 8.3.1.2.3. By Material
 - 8.3.1.2.4. By Application
 - 8.3.2. United Kingdom Supercapacitor Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product Type
 - 8.3.2.2.2. By Module Type
 - 8.3.2.2.3. By Material

- 8.3.2.2.4. By Application
- 8.3.3. France Supercapacitor Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product Type
 - 8.3.3.2.2. By Module Type
 - 8.3.3.2.3. By Material
 - 8.3.3.2.4. By Application
- 8.3.4. Russia Supercapacitor Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Product Type
 - 8.3.4.2.2. By Module Type
 - 8.3.4.2.3. By Material
 - 8.3.4.2.4. By Application
- 8.3.5. Spain Supercapacitor Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Product Type
 - 8.3.5.2.2. By Module Type
 - 8.3.5.2.3. By Material
 - 8.3.5.2.4. By Application

9. SOUTH AMERICA SUPERCAPACITOR MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product Type
 - 9.2.2. By Module Type
 - 9.2.3. By Material
 - 9.2.4. By Application
 - 9.2.5. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Supercapacitor Market Outlook
 - 9.3.1.1. Market Size & Forecast

- 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product Type
 - 9.3.1.2.2. By Module Type
 - 9.3.1.2.3. By Material
 - 9.3.1.2.4. By Application
- 9.3.2. Argentina Supercapacitor Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product Type
 - 9.3.2.2.2. By Module Type
 - 9.3.2.2.3. By Material
 - 9.3.2.2.4. By Application

10. MIDDLE EAST & AFRICA SUPERCAPACITOR MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Product Type
 - 10.2.2. By Module Type
 - 10.2.3. By Material
 - 10.2.4. By Application
 - 10.2.5. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Supercapacitor Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Product Type
 - 10.3.1.2.2. By Module Type
 - 10.3.1.2.3. By Material
 - 10.3.1.2.4. By Application
 - 10.3.2. South Africa Supercapacitor Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Product Type

- 10.3.2.2.2. By Module Type
- 10.3.2.2.3. By Material
- 10.3.2.2.4. By Application
- 10.3.3. UAE Supercapacitor Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Product Type
 - 10.3.3.2.2. By Module Type
 - 10.3.3.2.3. By Material
 - 10.3.3.2.4. By Application
- 10.3.4. Israel Supercapacitor Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Product Type
 - 10.3.4.2.2. By Module Type
 - 10.3.4.2.3. By Material
 - 10.3.4.2.4. By Application
- 10.3.5. Egypt Supercapacitor Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Product Type
 - 10.3.5.2.2. By Module Type
 - 10.3.5.2.3. By Material
 - 10.3.5.2.4. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. GE Maxwell Technologies
 - 13.1.1. Business Overview

- 13.1.2. Key Revenue and Financials (If Available)
- 13.1.3. Recent Developments
- 13.1.4. Key Personnel
- 13.1.5. Key Product/Services
- 13.2. Skeleton Technologies
 - 13.2.1. Business Overview
 - 13.2.2. Key Revenue and Financials
 - 13.2.3. Recent Developments
 - 13.2.4. Key Personnel
 - 13.2.5. Key Product/Services
- 13.3. Nesscap Energy
 - 13.3.1. Business Overview
 - 13.3.2. Key Revenue and Financials (If Available)
 - 13.3.3. Recent Developments
 - 13.3.4. Key Personnel
 - 13.3.5. Key Product/Services
- 13.4. Panasonic Corporation
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials (If Available)
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel
 - 13.4.5. Key Product/Services
- 13.5. CAP-XX
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials (If Available)
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel
 - 13.5.5. Key Product/Services
- 13.6. Nippon Chemi-Con Corporation
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials (If Available)
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel
 - 13.6.5. Key Product/Services
- 13.7. Ioxus (acquired by Eaton)
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel

13.7.5. Key Product/Services

13.8. Yunasko

13.8.1. Business Overview

13.8.2. Key Revenue and Financials (If Available)

13.8.3. Recent Developments

13.8.4. Key Personnel

13.8.5. Key Product/Services

13.9. Elton Super Capacitor

13.9.1. Business Overview

13.9.2. Key Revenue and Financials (If Available)

13.9.3. Recent Developments

13.9.4. Key Personnel

13.9.5. Key Product/Services

13.10. VINATech

13.10.1. Business Overview

13.10.2. Key Revenue and Financials (If Available)

13.10.3. Recent Developments

13.10.4. Key Personnel

13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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Product name: Supercapacitor Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Product Type (Double-Layer Capacitor, Pseudo capacitors, and Hybrid Capacitors), Module Type (Less Than 10 Volts Modules, 10 Volts to 25 Volts Modules, 25 Volts to 50 Volts Modules, 50 Volts to 100 Volts Modules, and Above 100 Volts Modules), Material (Activated carbon, Carbide Derived Carbon, Carbon Aerogel, and Others), and Application (Automotive, Industrial, Energy, Consumer Electronics, and Aerospace & Defense), By Region, Competition 2018-2028

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