

Global Supercapacitor Technology Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Supercapacitor Technology market size was valued at USD 1009.4 million in 2023 and is forecast to a readjusted size of USD 1566.4 million by 2030 with a CAGR of 6.5% during review period.

A supercapacitor, also called an ultracapacitor, is a high-capacity capacitor, with a capacitance value much higher than other capacitors but with lower voltage limits, almost instant recharging and very long lifetimes. It bridges the gap between electrolytic capacitors and rechargeable batteries. It typically stores 10 to 100 times more energy per unit volume or mass than electrolytic capacitors, can accept and deliver charge much faster than batteries, and tolerates many more charge and discharge cycles than rechargeable batteries. Because they store energy in an electric field, rather than in a chemical reaction, they can survive hundreds of thousands more charge and discharge cycles than a battery. Supercapacitors are used in applications requiring many rapid charge/discharge cycles, rather than long-term compact energy storage — in automobiles, buses, trains, cranes and elevators, where they are used for regenerative braking, short-term energy storage, or burst-mode power delivery. Smaller units are used as power backup for static random-access memory (SRAM).

Supercapacitor which can hold more than million times capacitance of regular capacitors is the future green energy storage device. Depending on the capacitance, Supercapacitor is able to be variously applied. Less than 1F grade Supercapacitor backs up the data and maintains RTC (Real Time Clock) built in the circuit as an auxiliary power system when a power supply of the application such as mobile phones, MP3 players, and Audio, VCR, etc is stopped. 10F ~ 100F and

thousands of F grade Supercapacitor are being used in large hybrid cars, UPS, EMU, copier requiring an instant high power, Supercapacitor is also being gradually expanded to power unit like solar, wind, and environment-friendly renewable energy resources as an essential component.

Global top five players of Supercapacitor Technology are Maxwell Technologies, Panasonic, VINATech, Nippon Chemi-Con, and Samwha Electric, with a total market share of approximately 30%, of which Maxwell Technologies is the largest player, with about 8% of the market share. The production sites are mainly located in North America, Europe, China, Japan, and Korea. In terms of market, it is mainly divided into Asia Pacific, China, Europe and the United States, with Asia Pacific occupying about 40% of the market share and China occupying about 30% of the market share. In terms of its product type, the products can be mainly divided into radial type, column type and button type, with radial type occupying the largest market share, accounting for about 60%, column type occupying about 30% of the market share, and button type occupying about 8% of the market share. In terms of its application, it can be mainly divided into transportation, power grid and consumer electronics, with transportation accounting for about 55%.

The Global Info Research report includes an overview of the development of the Supercapacitor Technology industry chain, the market status of Transportation (Radial Type, Cylindrical Type), Electricity (Radial Type, Cylindrical Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Supercapacitor Technology.

Regionally, the report analyzes the Supercapacitor Technology markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Supercapacitor Technology market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Supercapacitor Technology market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Supercapacitor Technology industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Radial Type, Cylindricity Type).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Supercapacitor Technology market.

Regional Analysis: The report involves examining the Supercapacitor Technology market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Supercapacitor Technology market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Supercapacitor Technology:

Company Analysis: Report covers individual Supercapacitor Technology players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Supercapacitor Technology This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Transportation, Electricity).

Technology Analysis: Report covers specific technologies relevant to Supercapacitor Technology. It assesses the current state, advancements, and potential future developments in Supercapacitor Technology areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Supercapacitor Technology market. This analysis helps understand market share, competitive

advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Supercapacitor Technology market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Radial Type

Cylindricity Type

Button Type

Others

Market segment by Application

Transportation

Electricity

Consumer Electronics

Others

Market segment by players, this report covers

Maxwell Technologies, Inc.

Panasonic Holdings Corporation

VINATech Co., Ltd.

Nippon Chemi-Con Corporation

Samwha Electric

Skeleton Technologies

Man Yue Technology Holdings Limited

LS Materials Co., Ltd.

KYOCERA AVX Components Corporation

ELNA Co., Ltd.

Ningbo CRRC New Energy Technology Co., Ltd.

Nantong Jianghai Capacitor Co., Ltd.

Beijing HCC Energy Technology Co., Ltd.

Eaton Corporation plc

KEMET Corporation

Jinzhou Kaimei Power Co., Ltd.

Cornell Dubilier Electronics, Inc.

IoXus

Shanghai Aowei Technology Development Co., Ltd.

Shandong Goldencell Electronics Technology Co., Ltd.

Zhao Qing Beryl Electronic Technology Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Supercapacitor Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Supercapacitor Technology, with revenue, gross margin and global market share of Supercapacitor Technology from 2019 to 2024.

Chapter 3, the Supercapacitor Technology competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Supercapacitor Technology market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Supercapacitor Technology.

Chapter 13, to describe Supercapacitor Technology research findings and conclusion.

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