

Global Ultracapacitor Market Growth (Status and Outlook) 2025-2031

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Abstracts

According to this study, the global Ultracapacitor market size will reach US\$ 1446 million by 2031.

Ultracapacitor mainly use fast and reversible redox reactions on the double layer or electrodes to store energy. The energy storage process does not produce chemical reactions. It has the characteristics of short charging time, long service life, good temperature characteristics, energy saving and green environmental protection.

The energy storage principle of Ultracapacitor is based on the adsorption or adsorption-desorption process of charge on the electrode surface, which is related to the working principle of electrochemical capacitors or electric double layer capacitors (EDLC). Usually, the electrodes of Ultracapacitor use high surface area materials, such as activated carbon, to increase the electrode surface area, thereby increasing the energy storage capacity. Compared with secondary batteries, it has better high current discharge characteristics. Based on its high power density (5-30 kW/kg, 10-100 times higher than lithium-ion batteries), extremely short charging time (several minutes or even tens of seconds), and ultra-long cycle life (10⁴-10⁶ times), it has received widespread attention in the field of energy storage. However, the overall research standards in the field are relatively vague, and the energy storage mechanism is unclear, which greatly limits the research and development of Ultracapacitor. At present, it has broad application prospects in the fields of information, electronics, instrumentation, energy, transportation and military industry.

In terms of product price, as the technology and application level mature, the overall price of Ultracapacitor tends to be rational. In particular, small-capacity Ultracapacitor have basically matured.

Due to the increasingly serious environmental pollution and energy shortage, Ultracapacitor are increasingly used in trams, electric vehicles and hybrid vehicles. Ultracapacitor can also play a key role in the start-stop system of electric and hybrid vehicles. Pure electric vehicles generate huge currents at the moment of starting, which can cause great damage to the car battery. Ultracapacitor have high peak power and can release strong currents instantly, reducing braking energy consumption. Ultracapacitor can also be used as auxiliary power sources for electric vehicles, which can effectively extend the service life of batteries. The power industry has also been affected by the digital revolution of the economy.

From smart meters, digital substations and smart electric vehicle charging infrastructure to software solutions such as artificial intelligence, digital twins, dynamic line ratings and blockchain technology, governments, utilities and manufacturers are increasingly adopting digital technologies. Wind power generation is an important application area for Ultracapacitor. The power generation efficiency of wind turbines depends largely on the control system of wind turbines. Compared with other energy storage methods, Ultracapacitor have several advantages as the power source of wind turbine control systems: high power density, high output power, fast response to wind changes; long service life, wide operating temperature range, can adapt to extremely cold or hot weather, and low maintenance cost. Especially in offshore wind power stations with high maintenance costs and difficulties, the advantages are more obvious; it can effectively improve the quality of power output from wind turbines. Due to the randomness and instability of natural wind, it will cause about 10% disturbance to the output voltage. Ultracapacitor can respond quickly, store energy during high voltage periods, release energy during low voltage periods, and smooth the output voltage.

Improving performance and reducing costs are the main themes of supercapacitor development. Improving the capacity and cycle characteristics of capacitors and reducing costs have always been issues of concern to the industry. In terms of improving performance, new materials such as carbon fiber, metal oxides, carbon aerogels, carbon nanotubes, and composite electrode materials continue to emerge. The focus of electrolyte research is to develop materials with wide potential windows, high temperature resistance, and good ion conductivity. At present, supercapacitor electrode materials are mainly concentrated in: First, the use of existing electrode materials, such as double-layer capacitors combined with Faraday pseudocapacitive storage mechanisms, to increase capacitance; Second, the development of new electrode materials. In fact, the development of new electrode materials has never stopped.

LPI (LP Information)' newest research report, the “Ultracapacitor Industry Forecast” looks at past sales and reviews total world Ultracapacitor sales in 2024, providing a comprehensive analysis by region and market sector of projected Ultracapacitor sales for 2025 through 2031. With Ultracapacitor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ultracapacitor industry.

This Insight Report provides a comprehensive analysis of the global Ultracapacitor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Ultracapacitor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ultracapacitor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultracapacitor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ultracapacitor.

This report presents a comprehensive overview, market shares, and growth opportunities of Ultracapacitor market by product type, application, key players and key regions and countries.

Segmentation by Type:

Radial Type

Cylindricity Type

Button Type

Others

Segmentation by Application:

Transportation

Electricity

Consumer Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Maxwell Technologies

LS Materials

Samwha Electric

Nippon Chemi-Con

Skeleton Technologies

Ningbo CRRC New Energy Technology

KYOCERA AVX Components

Man Yue Technology

Jinzhou Kaimei Power

ELNA

VINATech

Beijing HCC Energy

KEMET

Eaton

Nantong Jianghai Capacitor

Shenzhen TIG Technology

Ioxus

Cornell Dubilier Electronics

Shanghai Aowei Technology Development

Shandong Goldencell Electronics Technology

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