

Global Ultracapacitors Market Size study & Forecast, by Type (Double Layered Capacitors, Pseudocapacitors, Hybrid Capacitors), by Application (Automotive, Consumer Electronics, Energy, Industrial and Others) and Regional Analysis, 2023-2030

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Abstracts

Global Ultracapacitors Market is valued approximately at USD 1.96 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 15.30% over the forecast period 2023-2030. Ultracapacitors are the appropriate electrochemical energy storage device to fill the space between capacitors and batteries. Supercapacitors use electrode materials with a large surface area and thin electrolytic dielectrics to produce high capacitance. An ultracapacitor is a type of high-capacity capacitor with a larger capacitance value than standard capacitors, allowing it to store more energy. A dielectric and an electrolyte separate two plates in supercapacitors. This separates its plates and stores more energy than ordinary capacitors by forming a double layer of separated charges between two porous, often carbon-based plates. The Ultracapacitors market is expanding because of factors such as rising demand for consumer electronics and growing demand for energy storage devices.

The increasing demand for consumer electronics is driving the Ultracapacitors market. According to Statista – as of 2023, revenue in the worldwide Consumer Electronics market is estimated at USD 1,103 billion, and the market is expected to grow annually by 2.17% between 2023 & 2027 to reach to USD 1201.90 billion by 2027. Furthermore, alternative forms of transportation are becoming more popular as a result of rising fuel prices, rising carbon emissions, and the loss of natural resources. Thus, to cut CO2 emissions and conserve gasoline, governments in several areas have started enforcing

strict environmental restrictions. For instance, a legislative proposal from the European Commission confirmed a 95g/km objective by 2020. The main factors promoting the rise of ultracapacitors in these regions are government requirements like Corporate Average Fuel Economy (CAFE) in the U.S. and 95g/km CO₂ emissions in Europe. The demand for ultracapacitors, which provide environmentally benign energy storage choices, has risen as a result. Ultracapacitors are anticipated to eventually replace batteries as a battery technology supplement, driving the market growth. In addition, stringent environmental regulations in transportation industry and growing demand from newer applications such as wind and solar is creating lucrative growth to the market. However, the high cost of Ultracapacitors stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Ultracapacitors Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to presence of high-end electronics industry, and sales of pseudo ultracapacitors. Europe is expected to grow significantly during the forecast period, owing to factors such as rising electric vehicles industry, automotive and geographic expansion of key players, and active participation of government and nonprofit organizations in the market space.

Major market player included in this report are:

NEC Corporation

LS MTRON LTD

Maxwell Technologies

Ness Capacitor Co., Ltd

Panasonic Corporation

KEMET Corporation (YAGEO Group)

Nippon Chemi-Con Corporation

Skeleton Technologies

Eaton

Supreme Power Solutions Co., Ltd.

Recent Developments in the Market:

In February 2022, Panasonic Corporation unveiled its KX line of SP-Cap aluminium electrolytic capacitors. With an endurance rating of up to 5,500 hours at 125°C, these capacitors have the highest level of industry reliability. This series of capacitors is suitable for use in power circuits for servers, communication base stations, etc.

In August 2021, KEMET introduced the FMD and FU0H families of high-performance supercapacitors for vehicle electronics. With an operational temperature range of -40°C

to 85°C, this series offer 1,000 hours of operation at a voltage rated for 85°C/85% RH. The FMD series has the longest lifespan with 4,000 hours. These supercapacitors have passed a series of tests related to automobiles.

Global Ultracapacitors Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Double Layered Capacitors

Pseudocapacitors

Hybrid Capacitors

By Application:

Automotive

Consumer Electronics

Energy

Industrial

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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