

# Global Lithium-ion Capacitor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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# **Abstracts**

According to our (Global Info Research) latest study, the global Lithium-ion Capacitor market size was valued at USD 22 million in 2023 and is forecast to a readjusted size of USD 30 million by 2030 with a CAGR of 4.6% during review period.

A lithium ion capacitor (LIC) is a capacitor that uses a carbon-based material capable of absorbing lithium ions as the negative electrode material, and improves energy density by adding lithium ions to it, while using the principles of a general electric double layer capacitor.

The principle of charging and discharging differs between the positive electrode and the negative electrode, and the structure combines the negative electrode of a lithium-ion battery and the positive electrode of an electric double layer.

A type of asymmetric capacitor with a different positive and negative electrode principle, which combines the positive electrode of an electric double-layer capacitor and the negative electrode of a lithium-ion battery. While the positive electrode operates by the principal of physical, Electrical Double Layer, the negative electrode charges and discharges by the redox reaction of lithium. The high energy density compared to conventional capacitors is largely due to the fact that the pseudo electrostatic capacitance of the negative electrode is increased by pre-doping.

JM Energy is the leading manufacturer in the global Lithium-ion Capacitor market with the market share of about 71%, in terms of revenue, followed by Taiyo Yuden and VINATech. Besides the big vendors, there are also several medium and small vendors, including Cap Energy, Jianghai, EVE Energy, and TIG.



In terms of product types, Lithium-ion Capacitor can be classified into two categories: Radial Type and Laminating Type. In 2019, the market share of Radial Lithium-ion Capacitor will be greater, about 52%.

The Global Info Research report includes an overview of the development of the Lithium-ion Capacitor industry chain, the market status of Energy Generation & Storage (Radial Type, Laminating Type), Transportation (Radial Type, Laminating Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Lithium-ion Capacitor.

Regionally, the report analyzes the Lithium-ion Capacitor 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 Lithium-ion Capacitor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

# Key Features:

The report presents comprehensive understanding of the Lithium-ion Capacitor 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 Lithium-ion Capacitor 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 sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Radial Type, Laminating 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 Lithium-ion Capacitor market.

Regional Analysis: The report involves examining the Lithium-ion Capacitor 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 Lithium-ion Capacitor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Lithium-ion Capacitor:

Company Analysis: Report covers individual Lithium-ion Capacitor manufacturers, 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 Lithium-ion Capacitor This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Energy Generation & Storage, Transportation).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Lithium-ion Capacitor 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

Lithium-ion Capacitor 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 volume and value.

Market segment by Type

Radial Type



Laminating Type

Market segment by Application

Energy Generation & Storage

Transportation

**UPS** 

**Industrial Machines** 

Major players covered

JM Energy

Taiyo Yuden

VINATech

Cap Energy

Jianghai

**EVE Energy** 

TIG

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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



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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Lithium-ion Capacitor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium-ion Capacitor, with price, sales, revenue and global market share of Lithium-ion Capacitor from 2019 to 2024.

Chapter 3, the Lithium-ion Capacitor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium-ion Capacitor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Lithium-ion Capacitor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Lithium-ion Capacitor.

Chapter 14 and 15, to describe Lithium-ion Capacitor sales channel, distributors, customers, research findings and conclusion.



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