

Global Aerospace Lithium-ion Battery Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Aerospace Lithium-ion Battery market size was valued at US\$ million in 2023. With growing demand in downstream market, the Aerospace Lithium-ion Battery is forecast to a readjusted size of US\$ million by 2030 with a CAGR of % during review period.

The research report highlights the growth potential of the global Aerospace Lithium-ion Battery market. Aerospace Lithium-ion Battery are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Aerospace Lithium-ion Battery. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Aerospace Lithium-ion Battery market.

A lithium-ion battery or Li-ion battery (abbreviated as LIB) is a type of rechargeable battery in which lithium ions move from the negative electrode to the positive electrode during discharge and back when charging. Li-ion batteries use an intercalated lithium compound as one electrode material, compared to the metallic lithium used in a non-rechargeable lithium battery. The electrolyte, which allows for ionic movement, and the two electrodes are the constituent components of a lithium-ion battery cell.

China's policy on lithium-ion batteries mainly focuses on lithium-ion batteries. In 2015, in order to strengthen the management of lithium-ion battery industry and improve the development level of the industry, China formulated the Standard of Lithium-ion Battery Industry. the global sales of new energy vehicles reached 10.8 million units in 2022,

with a year-on-year increase of 61.6%. In 2022, China new energy vehicle sales reached 6.8 million units, and the global share increased to 63.6%. In Q4 2022, sales penetration rate of China's new energy vehicle reached 27%, while the global average penetration rate was only 15%. Europe penetration was 19%, and North America penetration rate was only 6%. Lithium batteries will fully benefit from the high growth of downstream demand. According to the Ministry of Industry and Information Technology, China's lithium-ion battery production reached 750 GWh in 2022, up more than 130 percent year on year. Among them, the output of lithium energy storage battery exceeded 100 GWh, and the total output value of the industry exceeded 1.2 trillion yuan. The industrial application of lithium battery was also growing rapidly. In 2022, the loading capacity of new energy vehicle power battery was about 295 GWh, and the new energy vehicle power battery was about 295 GWh. According to our research, in 2022, the overall global lithium-ion battery shipments were 957GWh, a year-on-year increase of 70%. Global vehicle power battery (EV LIB) shipments were 684GWh, a year-on-year increase of 84%; Energy storage battery (ESS LIB) shipments were 159.3GWh, a year-on-year increase of 140%.

Key Features:

The report on Aerospace Lithium-ion Battery market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Aerospace Lithium-ion Battery market. It may include historical data, market segmentation by Type (e.g., Lithium Nickel Manganese Cobalt (LI-NMC), Lithium Iron Phosphate (LFP)), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Aerospace Lithium-ion Battery market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Aerospace Lithium-ion Battery market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest

technological developments in the Aerospace Lithium-ion Battery industry. This include advancements in Aerospace Lithium-ion Battery technology, Aerospace Lithium-ion Battery new entrants, Aerospace Lithium-ion Battery new investment, and other innovations that are shaping the future of Aerospace Lithium-ion Battery.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Aerospace Lithium-ion Battery market. It includes factors influencing customer ' purchasing decisions, preferences for Aerospace Lithium-ion Battery product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Aerospace Lithium-ion Battery market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Aerospace Lithium-ion Battery market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Aerospace Lithium-ion Battery market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Aerospace Lithium-ion Battery industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Aerospace Lithium-ion Battery market.

Market Segmentation:

Aerospace Lithium-ion Battery 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.

Segmentation by type

Lithium Nickel Manganese Cobalt (LI-NMC)

Lithium Iron Phosphate (LFP)

Lithium Cobalt Oxide (LCO)

Lithium Titanate Oxide (LTO)

Lithium Manganese Oxide (LMO)

Lithium Nickel Cobalt Aluminium Oxide (NCA)

Segmentation by application

Commercial Aircraft

Military Aircraft

Residential Aircraft

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.

Aerolithium Aviation

Sion Power

Concorde Battery

Cella Energy

Saft

Tadiran Batteries

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aerospace Lithium-ion Battery market?

What factors are driving Aerospace Lithium-ion Battery market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Aerospace Lithium-ion Battery market opportunities vary by end market size?

How does Aerospace Lithium-ion Battery break out type, application?

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