

# Commercial Aircraft Battery Market Report by Type (Lithium-based Battery, Nickel-based Battery, Lead Acid Battery), Application (Main Battery, Auxiliary Power Unit (APU) Battery), and Region 2023-2028

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## Abstracts

### Market Overview:

The global commercial aircraft battery market size reached US\$ 179.5 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 255.5 Million by 2028, exhibiting a growth rate (CAGR) of 6.17% during 2023-2028. Increasing demand for more fuel-efficient and environmentally friendly aircraft, growing emphasis on sustainable aviation, the rising air passenger traffic, and the subsequent expansion of the commercial airline fleet represent some of the key factors driving the market.

Commercial aircraft batteries play a crucial role in modern aviation, providing power for essential systems and ensuring the safety and reliability of flights. They are specially designed to meet the stringent requirements of the aerospace industry. They are usually constructed using advanced technologies and high-quality materials to ensure optimal performance and longevity. The working principle of a commercial aircraft battery involves converting stored chemical energy into electrical energy, which is then used to power various aircraft systems. This energy conversion is achieved through a chemical reaction that occurs within the battery cells. Lead-acid, nickel-cadmium (NiCd), and lithium-ion (Li-ion) are some of the common types of batteries used in commercial aircrafts. These batteries offer enhanced safety by providing backup power in the event of an engine failure or electrical system malfunction. Moreover, they can also support auxiliary power during ground operations, reducing the need for external power sources and improving operational efficiency.

### Commercial Aircraft Battery Market Trends:

The global commercial aircraft battery market is primarily driven by the increasing demand for more fuel-efficient and environmentally friendly aircraft and the growing emphasis on sustainable aviation. Moreover, the rising air passenger traffic and the subsequent expansion of the commercial airline fleet are boosting the market growth. This is further boosted by the growing trend of electric aircraft and hybrid-electric propulsion systems and rapid advancements in battery technologies, such as lithium-ion batteries with improved energy density and longer life cycles, are fueling market growth. Furthermore, the increasing focus on safety and the escalating need for reliable power sources in critical situations are accelerating the market growth. In line with this, the growing integration of advanced avionics systems, including electronic flight bags and in-flight entertainment systems, and the need for lightweight and compact batteries to optimize aircraft performance and reduce fuel consumption are contributing to the market growth. Other factors, including the implementation of various government initiatives to provide reliable backup power to critical systems, such as flight control, avionics, and emergency lighting, the growing need for reliable and efficient battery systems, and enhanced focus on research and development (R&D) activities, are presenting remunerative growth opportunities for the market.

### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global commercial aircraft battery market, along with forecasts at the global levels from 2023-2028. Our report has categorized the market based on type and application.

### Type Insights:

Lithium-based Battery

Nickel-based Battery

Lead Acid Battery

The report has provided a detailed breakup and analysis of the commercial aircraft battery market based on the type. This includes lithium-based battery, nickel-based battery, and lead acid battery. According to the report, lead acid battery represented the largest segment.

### Application Insights:

Main Battery

Auxiliary Power Unit (APU) Battery

The report has provided a detailed breakup and analysis of the commercial aircraft battery market based on the application. This includes main battery and auxiliary power unit (APU) battery. According to the report, main battery represented the largest segment.

#### Regional Insights:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for commercial aircraft battery. Some of the factors

driving the North America commercial aircraft battery market included the significant growth the aviation industry, the expanding aftermarket segment, the surging collaborations and partnerships between battery manufacturers and aircraft OEMs, and the development of customized battery solutions.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global commercial aircraft battery market. Detailed profiles of all major companies have been provided. Some of the companies covered include Concorde Battery Corporation, EaglePicher Technologies, EnerSys, HBL Power Systems Ltd., Saft (TotalEnergies), True Blue Power (Mid-Continent Instrument Co. Inc.), etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report:

How has the global commercial aircraft battery market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global commercial aircraft battery market?

What is the impact of each driver, restraint, and opportunity on the global commercial aircraft battery market?

What are the key regional markets?

Which countries represent the most attractive commercial aircraft battery market?

What is the breakup of the market based on type?

Which is the most attractive type in the commercial aircraft battery market?

What is the breakup of the market based on the application?

Which is the most attractive application in the commercial aircraft battery market?

What is the competitive structure of the global commercial aircraft battery market?

Who are the key players/companies in the global commercial aircraft battery market?

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