

# Global Aviation-Grade eVTOL Battery Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Aviation-Grade eVTOL Battery market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

An aviation-grade eVTOL (electric Vertical Takeoff and Landing) battery is a high-performance energy storage system specifically designed to power eVTOL aircraft. These batteries must meet stringent safety, reliability, and efficiency standards suitable for aviation use. They typically feature advanced lithium-ion or solid-state technology to provide high energy density, rapid charging, and long cycle life, ensuring sufficient power for vertical takeoffs, sustained flight, and landings. Aviation-grade eVTOL batteries also incorporate robust thermal management systems and fail-safe mechanisms to prevent overheating and ensure operational safety. These batteries are crucial for the development and operation of eVTOL aircraft, which are envisioned to revolutionize urban air mobility by offering a sustainable and efficient alternative to traditional transportation methods.

This report is a detailed and comprehensive analysis for global Aviation-Grade eVTOL Battery market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets.

Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Aviation-Grade eVTOL Battery market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Aviation-Grade eVTOL Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Aviation-Grade eVTOL Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Aviation-Grade eVTOL Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Aviation-Grade eVTOL Battery
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Aviation-Grade eVTOL Battery market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amprius Technologies, Zenergy, CATL, SolidEnergy Systems, Lillium, Cuberg, Ionblox, E-One Moli Energy, Farasis Energy, EVE Energy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Aviation-Grade eVTOL Battery market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Semi Solid State Battery

Solid State Battery

### Market segment by Application

Passenger Market

Cargo Market

### Major players covered

Amprius Technologies

Zenergy

CATL

SolidEnergy Systems

Lilium

Cuberg

Ionblox

E-One Moli Energy

Farasis Energy

EVE Energy

Guoxuan High-Tech

Saft

Grepow

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 Aviation-Grade eVTOL Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aviation-Grade eVTOL Battery, with price, sales quantity, revenue, and global market share of Aviation-Grade eVTOL Battery from 2020 to 2025.

Chapter 3, the Aviation-Grade eVTOL Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the Aviation-Grade eVTOL Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Aviation-Grade eVTOL Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Aviation-Grade eVTOL Battery.

Chapter 14 and 15, to describe Aviation-Grade eVTOL Battery sales channel, distributors, customers, research findings and conclusion.

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