

Global eVTOL Power Battery Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global eVTOL Power Battery market size was valued at US\$ 111 million in 2025 and is forecast to a readjusted size of US\$ 261 million by 2032 with a CAGR of 9.9% during review period.

An eVTOL power battery is a high-performance energy storage system that supplies electricity to the electric motors of an electric Vertical Take-Off and Landing (eVTOL) aircraft. Unlike conventional batteries, it must deliver exceptionally high energy density, power output, and safety while maintaining a lightweight structure to support vertical lift and sustained flight. Typically based on advanced lithium-ion, solid-state, or lithium-metal chemistries, these batteries are designed to provide rapid charging, thermal stability, and long cycle life under demanding aviation conditions. They serve as the core component enabling clean, quiet, and efficient electric flight, directly determining an eVTOL's range, payload capacity, and operational reliability.

In 2025, global eVTOL Power Battery production reached approximately 2406 units, with an average global market price of around 45000 USD/unit, The production capacity for eVTOL Power Battery in 2025 was approximately 3000 units. The typical gross profit margin for eVTOL Power Battery between 20% and 40%.

The upstream development of eVTOL batteries primarily involves the raw material and component supply chains, including the mining and refining of lithium, nickel, cobalt, and manganese; the production of cathode and anode materials; the manufacture of electrolytes and separators; and the design and assembly of battery cells and modules. This also includes research into advanced materials, such as solid-state electrolytes and high-performance thermal management systems, which directly impact battery

safety, energy density, and lifecycle performance.

The downstream development encompasses the integration and application of eVTOL aircraft batteries, including integrating battery packs into propulsion and energy management systems, as well as flight testing, maintenance, and performance monitoring. Further downstream, battery recycling and secondary use (such as for stationary energy storage) constitute crucial components of sustainable development. eVTOL manufacturers, urban air mobility operators, and charging infrastructure providers all rely on stable and efficient battery technology as the backbone of safe and reliable electric aviation.

The global eVTOL power battery market is entering a critical transition from technology validation and low-volume supply toward commercial-scale deployment, supported by the rapid development of the low-altitude economy, the establishment of urban air mobility ecosystems, progress in aircraft certification, and accelerating production plans among leading eVTOL manufacturers. As eVTOL aircraft are highly sensitive to range, payload capability, weight, and flight safety, aviation-grade batteries capable of combining high specific energy with high power output have become a key factor determining overall aircraft performance. The competitive landscape includes both established global battery manufacturers and specialized companies focused on high-performance cells and aviation battery systems, while competition is increasingly shifting from energy density alone toward comprehensive capabilities in safety, fast charging, cycle life, thermal management, and system integration. Looking ahead, the gradual commercialization of passenger eVTOL aircraft, continued advances in battery technology, and greater supply-chain scale are expected to support strong market expansion, with solid-state batteries, high-silicon-anode technologies, and lithium-metal batteries emerging as important pathways for the next generation of electric aviation power systems.

Report Scope

This report is a detailed and comprehensive analysis for global eVTOL Power Battery market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Energy Density 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 eVTOL Power Battery market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global eVTOL Power Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global eVTOL Power Battery market size and forecasts, by Energy Density and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global eVTOL Power Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 eVTOL Power 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 eVTOL Power 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 LG Energy Solution, Amprius Technologies, H55, Ionblox, Sion Power, Saft, Molicel, CATL, CALB, EVE Energy, etc.

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

Market Segmentation

eVTOL Power Battery market is split by Energy Density and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Energy Density, 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 Energy Density

Liquid-state Batteries

Solid-state Batteries

Market segment by Cell Format

Cylindrical Battery

Pouch Battery

Prismatic Battery

Market segment by Battery Chemistry

Ternary Lithium-ion Battery?NMC/NCA?

Lithium Iron Phosphate Battery?LFP?

Silicon-Anode Lithium-ion Battery

Others

Market segment by Application

Passenger Transportation

Cargo & Logistics

Emergency & Medical Services

Special-Mission Applications

Others

Major players covered

LG Energy Solution

Ampricus Technologies

H55

Ionblox

Sion Power

Saft

Molicel

CATL

CALB

EVE Energy

Farasis Energy

Lishen Battery

Sunwoda

BAK Battery

Great Power

Electric Power Systems

Safran Electrical & Power

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)

Chapter Outline

Chapter 1, to describe eVTOL Power Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of eVTOL Power Battery, with price, sales quantity, revenue, and global market share of eVTOL Power Battery from 2021 to 2026.

Chapter 3, the eVTOL Power Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the eVTOL Power Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Energy Density and by Application, with sales market share and growth rate by Energy Density, by Application, from 2021 to 2032.

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 2021 to 2026. and eVTOL Power Battery market forecast, by regions, by Energy Density, and by Application, with sales and revenue, from 2027 to 2032.

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 eVTOL Power Battery.

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

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