

Global eVTOL Power Battery Market Growth 2026-2032

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Abstracts

The global eVTOL Power Battery market size is predicted to grow from US\$ 106 million in 2025 to US\$ 257 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

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

LP Information, Inc. (LPI) ' newest research report, the “eVTOL Power Battery Industry Forecast” looks at past sales and reviews total world eVTOL Power Battery sales in 2025, providing a comprehensive analysis by region and market sector of projected eVTOL Power Battery sales for 2026 through 2032. With eVTOL Power Battery sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world eVTOL Power Battery industry.

This Insight Report provides a comprehensive analysis of the global eVTOL Power Battery landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on eVTOL Power

Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global eVTOL Power Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for eVTOL Power Battery and breaks down the forecast by Energy Density, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global eVTOL Power Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of eVTOL Power Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Energy Density:

Liquid-state Batteries

Solid-state Batteries

Segmentation by Cell Format:

Cylindrical Battery

Pouch Battery

Prismatic Battery

Segmentation by Battery Chemistry:

Ternary Lithium-ion Battery?NMC/NCA?

Lithium Iron Phosphate Battery?LFP?

Silicon-Anode Lithium-ion Battery

Others

Segmentation by Application:

Passenger Transportation

Cargo & Logistics

Emergency & Medical Services

Special-Mission Applications

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 analysing the company's coverage, product portfolio, its market penetration.

LG Energy Solution

Amprion 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

Key Questions Addressed in this Report

What is the 10-year outlook for the global eVTOL Power Battery market?

What factors are driving eVTOL Power Battery market growth, globally and by region?

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

How do eVTOL Power Battery market opportunities vary by end market size?

How does eVTOL Power Battery break out by Energy Density, by Application?

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