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Global eVTOL Power Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global eVTOL Power Battery market size is expected to reach $ 261 million by 2032, rising at a market growth of 9.9% CAGR during the forecast period (2026-2032).

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.

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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 studies the global eVTOL Power Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for eVTOL Power Battery and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of eVTOL Power Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

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Global eVTOL Power Battery total production and demand, 2021-2032, (Units)

Global eVTOL Power Battery total production value, 2021-2032, (USD Million)

Global eVTOL Power Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global eVTOL Power Battery consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: eVTOL Power Battery domestic production, consumption, key domestic manufacturers and share

Global eVTOL Power Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global eVTOL Power Battery production by Energy Density, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global eVTOL Power Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global eVTOL Power Battery market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World eVTOL Power Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by

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manufacturer, by Energy Density, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global eVTOL Power Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global eVTOL Power Battery Market, Segmentation by Energy Density:

Liquid-state Batteries

Solid-state Batteries

Global eVTOL Power Battery Market, Segmentation by Cell Format:

Cylindrical Battery

Pouch Battery

Prismatic Battery

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Global eVTOL Power Battery Market, Segmentation by Battery Chemistry:

Ternary Lithium-ion Battery?NMC/NCA?

Lithium Iron Phosphate Battery?LFP?

Silicon-Anode Lithium-ion Battery

Others

Global eVTOL Power Battery Market, Segmentation by Application:

Passenger Transportation

Cargo & Logistics

Emergency & Medical Services

Special-Mission Applications

Others

Companies Profiled:

LG Energy Solution

Amprius Technologies

H55

Ionblox

Sion Power

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Saft

Molicel

CATL

CALB

EVE Energy

Farasis Energy

Lishen Battery

Sunwoda

BAK Battery

Great Power

Electric Power Systems

Safran Electrical & Power

Key Questions Answered:

1. How big is the global eVTOL Power Battery market?
2. What is the demand of the global eVTOL Power Battery market?
3. What is the year over year growth of the global eVTOL Power Battery market?
4. What is the production and production value of the global eVTOL Power Battery market?
5. Who are the key producers in the global eVTOL Power Battery market?
6. What are the growth factors driving the market demand?

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