

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

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Abstracts

The global Power Battery for eVTOL 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).

A Power Battery for eVTOL 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 Power Battery for eVTOL production reached approximately 2406 units, with an average global market price of around 45000 USD/unit. The production capacity for Power Battery for eVTOL in 2025 was approximately 3000 units. The typical gross profit margin for Power Battery for eVTOL 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 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 power-battery market for eVTOL is evolving rapidly from laboratory prototypes to early commercial supply chains, driven by the convergence of urban air mobility (UAM) demand, advances in high-energy-density chemistries, and system-level electrification requirements: developers prioritize cells and packs that deliver high gravimetric and volumetric energy, rapid charging, predictable thermal performance, and exceptional cycle life under high C-rate discharge and repeated opportunity-charging regimes.

Key market drivers are safety and certification (airworthiness standards force conservative chemistry and redundancy choices), system integration (battery management systems, thermal management, and modular pack architectures are now strategic differentiators), and supply-chain scale-up (Tier-1 aircraft integrators prefer battery suppliers with qualified aerospace production, traceable materials, and qualified testing facilities).

Barriers include the technical tradeoff between energy density and power/thermal safety, long and costly certification pathways with aviation authorities, limited availability of aviation-grade cells and qualified suppliers, and the need for integrated solutions that combine cells, pack, BMS and active cooling tuned for eVTOL flight profiles.

Opportunities concentrate around hybridized cell chemistries, fast-charging-capable pack designs, second-life and recycling pathways to improve total lifecycle economics, and partnerships between OEMs, battery makers and certification bodies to accelerate qualification cycles.

Report Scope

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

This report is a detailed and comprehensive analysis of the world market for Power

Battery for eVTOL 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 Power Battery for eVTOL that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Power Battery for eVTOL 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 Power Battery for eVTOL 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 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 Power Battery for eVTOL Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Battery for eVTOL Market, Segmentation by Energy Density:

Liquid-state Batteries

Solid-state Batteries

Global Power Battery for eVTOL Market, Segmentation by Cell Format by:

Cylindrical Battery

Pouch Battery

Prismatic Battery

Global Power Battery for eVTOL Market, Segmentation by Battery Chemistry:

Ternary Lithium-ion Battery?NMC/NCA?

Lithium Iron Phosphate Battery?LFP?

Silicon-Anode Lithium-ion Battery

Others

Global Power Battery for eVTOL 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

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 Power Battery for eVTOL market?
2. What is the demand of the global Power Battery for eVTOL market?
3. What is the year over year growth of the global Power Battery for eVTOL market?

4. What is the production and production value of the global Power Battery for eVTOL market?
5. Who are the key producers in the global Power Battery for eVTOL market?
6. What are the growth factors driving the market demand?

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