

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

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Abstracts

The global eVTOL Lithium 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 lithium battery is a high-performance energy storage system specifically designed for electric vertical takeoff and landing (eVTOL) aircraft. These batteries provide the necessary power for eVTOLs to achieve vertical lift and sustained flight. They are engineered to deliver high energy density, rapid charging capabilities, and robust safety features to support the unique demands of eVTOL operations. The advanced lithium-ion chemistry used in these batteries ensures lightweight and efficient energy storage, which is critical for maximizing flight range and payload capacity. eVTOL lithium batteries are pivotal in the development of urban air mobility solutions, offering a sustainable and efficient alternative to traditional aviation fuels.

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

The upstream of eVTOL batteries mainly involves the raw material and component supply chain, including lithium, nickel, cobalt, and manganese mining and refining; production of anode and cathode materials; electrolyte and separator manufacturing; and the design and assembly of battery cells and modules. It also includes advanced materials research, such as solid-state electrolytes and high-performance thermal management systems, which directly affect battery safety, energy density, and lifecycle performance.

The downstream covers the integration and application of batteries in eVTOL aircraft. This includes battery pack integration into propulsion and energy management systems, flight testing, maintenance, and performance monitoring. Further downstream, battery recycling and second-life utilization (e.g., stationary energy storage) form an essential loop for sustainability. 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.

Battery technology sits at the core of eVTOL development, representing both its greatest promise and its toughest limitation. Unlike conventional aircraft that rely on energy-dense jet fuel, eVTOLs depend on batteries that are far heavier and more efficient in terms of energy per kilogram. Engineers are pushing the boundaries with solid-state, lithium-metal, and structural battery systems that integrate power storage directly into the airframe. Yet each advance faces the same critical hurdles—thermal management, safety redundancy, and durability under the intense discharge cycles of vertical flight. Even modest gains in energy density or cooling efficiency can dramatically reshape what eVTOLs can achieve, but no single chemistry or design has yet solved all these challenges simultaneously.

Beyond the technical realm, eVTOL battery innovation must contend with systemic and ethical questions. Charging infrastructure, recycling, and material sourcing all shape the sustainability of this new form of flight. Real progress depends not just on breakthroughs in chemistry but on the intelligent coordination of power management, flight control, and lifecycle design. The evolution of eVTOL batteries thus represents more than a race for performance—it is a test of how thoughtfully technology can balance energy ambition with safety, responsibility, and environmental integrity.

Report Scope

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

This report is a detailed and comprehensive analysis of the world market for eVTOL Lithium 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 Lithium Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global eVTOL Lithium 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 Lithium Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Set) 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 eVTOL Lithium Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global eVTOL Lithium Battery Market, Segmentation by Energy Density:

Liquid-state Batteries

Solid-state Batteries

Global eVTOL Lithium Battery Market, Segmentation by Cell Format:

Cylindrical Battery

Pouch Battery

Prismatic Battery

Global eVTOL Lithium 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 Lithium Battery Market, Segmentation by Application:

Passenger Transportation

Cargo & Logistics

Emergency & Medical Services

Special-Mission Applications

Others

Companies Profiled:

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 Answered:

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

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