

# Global High-power eVTOL Battery Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High-power eVTOL 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).

A high-power eVTOL battery is a specialized energy storage system designed to deliver rapid, high-intensity power output required for electric vertical takeoff and landing (eVTOL) aircraft. Unlike conventional electric vehicle batteries that prioritize energy density for long range, eVTOL batteries emphasize power density, thermal stability, and safety to handle the extreme demands of vertical lift, hovering, and rapid transitions between flight modes. These batteries typically use advanced chemistries—such as lithium-ion, lithium-titanate, or emerging solid-state designs—combined with efficient cooling and battery management systems to ensure reliability and longevity under high discharge rates. Their performance directly determines an eVTOL's payload, flight duration, and safety profile, making them a critical enabler of urban air mobility.

In 2025, global High-power eVTOL Battery production reached approximately 2406 units, with an average global market price of around 45000 USD/unit. The production capacity for High-power eVTOL Battery in 2025 was approximately 3000 units. The typical gross profit margin for High-power eVTOL 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 high-power eVTOL battery market is moving from technology validation toward early commercialization, supported by the development of urban air mobility, advanced air mobility, and electric aviation. Because eVTOL aircraft require substantial peak power during vertical take-off, hovering, and other high-load flight phases, batteries that can simultaneously provide high power density, sufficient specific energy, rapid charging, and aviation-grade safety are becoming a key area of technological competition among aircraft manufacturers and battery suppliers. High-performance lithium-ion batteries currently dominate the market, with both high-power cylindrical cells and advanced pouch cells being adopted in eVTOL programs, while next-generation technologies such as silicon-anode, semi-solid-state, solid-state, and lithium-metal batteries continue to advance. As the industry progresses from prototype testing toward certification and commercial operation, competition is expected to increasingly focus on the overall balance of power, energy density, safety, charging speed, cycle life, and cost, favoring suppliers with aerospace-grade quality systems, integrated cell-to-pack development capabilities, and established partnerships with eVTOL manufacturers.

## **Report Scope**

This report studies the global High-power eVTOL Battery production, demand, key manufacturers, and key regions.

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

## **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global High-power eVTOL 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 High-power eVTOL 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 High-power eVTOL Battery Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global High-power eVTOL Battery Market, Segmentation by Energy Density:**

Liquid-state Batteries

Solid-state Batteries

### **Global High-power eVTOL Battery Market, Segmentation by Cell Format:**

Cylindrical Battery

Pouch Battery

Prismatic Battery

## **Global High-power eVTOL Battery Market, Segmentation by Battery Chemistry:**

Ternary Lithium-ion Battery?NMC/NCA?

Lithium Iron Phosphate Battery?LFP?

Silicon-Anode Lithium-ion Battery

Others

## **Global High-power eVTOL 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 High-power eVTOL Battery market?
2. What is the demand of the global High-power eVTOL Battery market?
3. What is the year over year growth of the global High-power eVTOL Battery market?
4. What is the production and production value of the global High-power eVTOL Battery market?
5. Who are the key producers in the global High-power eVTOL Battery market?
6. What are the growth factors driving the market demand?

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