

Global High-power eVTOL Battery Market Growth 2026-2032

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Abstracts

The global High-power eVTOL 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.

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

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

This Insight Report provides a comprehensive analysis of the global High-power eVTOL 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 High-power eVTOL Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-power eVTOL Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-power eVTOL 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 High-power eVTOL Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of High-power eVTOL 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 High-power eVTOL Battery market?

What factors are driving High-power eVTOL Battery market growth, globally and by region?

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

How do High-power eVTOL Battery market opportunities vary by end market size?

How does High-power eVTOL Battery break out by Energy Density, by Application?

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