

Global High-power eVTOL Battery Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-power eVTOL Battery market size was valued at US\$ 111 million in 2025 and is forecast to a readjusted size of US\$ 261 million by 2032 with a CAGR of 9.9% during review period.

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 is a detailed and comprehensive analysis for global High-power eVTOL Battery market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Energy Density and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-power eVTOL Battery market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Set), 2021-2032

Global High-power eVTOL Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Set), 2021-2032

Global High-power eVTOL Battery market size and forecasts, by Energy Density and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Set), 2021-2032

Global High-power eVTOL Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Set), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High-power eVTOL Battery

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-power eVTOL Battery market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

High-power eVTOL Battery market is split by Energy Density and by Application.

For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Energy Density, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Energy Density

Liquid-state Batteries

Solid-state Batteries

Market segment by Cell Format

Cylindrical Battery

Pouch Battery

Prismatic Battery

Market segment by Battery Chemistry

Ternary Lithium-ion Battery?NMC/NCA?

Lithium Iron Phosphate Battery?LFP?

Silicon-Anode Lithium-ion Battery

Others

Market segment by Application

Passenger Transportation

Cargo & Logistics

Emergency & Medical Services

Special-Mission Applications

Others

Major players covered

LG Energy Solution

Ampricus 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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe High-power eVTOL Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-power eVTOL Battery, with price, sales quantity, revenue, and global market share of High-power eVTOL Battery from 2021 to 2026.

Chapter 3, the High-power eVTOL Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-power eVTOL Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Energy Density and by Application, with sales market share and growth rate by Energy Density, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High-power eVTOL Battery market forecast, by regions, by Energy Density, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-power eVTOL Battery.

Chapter 14 and 15, to describe High-power eVTOL Battery sales channel, distributors, customers, research findings and conclusion.

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