

Global eVTOL Lithium Battery Market Growth 2026-2032

<https://marketpublishers.com/r/G2A5D9487EC4EN.html>

Date: July 2026

Pages: 140

Price: US\$ 3,660.00 (Single User License)

ID: G2A5D9487EC4EN

Abstracts

The global eVTOL Lithium Battery market size is predicted to grow from US\$ 99 million in 2025 to US\$ 843 million in 2032; it is expected to grow at a CAGR of 36.4% from 2026 to 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.

The cost of eVTOL batteries is approximately \$0.4/Wh, the cost of a single unit is around \$80,000, and the gross profit margin is between 15% and 20%.

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.

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

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

accelerating global eVTOL Lithium Battery market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of eVTOL Lithium Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Energy Density:

Below 300Wh/kg

300-400Wh/kg

Above 400Wh/kg

Segmentation by Type:

Solid-state Batteries

Semi-solid-state Batteries

Segmentation by Packaging Method:

Cylindrical Battery

Soft Pack Battery

Others

Segmentation by Application:

Passenger Market

Cargo Market

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.

CATL

Sunwoda Electronic

Grepow

Great Power Energy and Technology

Amprius Technologies

EVE Energy

Farasis Energy

Zhuhai CosMX Battery

EaglePicher

MaxAmps

Zenergy

Guoxuan High-Tech

Lishen Battery

Lilium

Cuberg

Ionblox

Molicel

BOLD Valuable Technology

magniX

H55

Key Questions Addressed in this Report

What is the 10-year outlook for the global eVTOL Lithium Battery market?

What factors are driving eVTOL Lithium Battery market growth, globally and by region?

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

How do eVTOL Lithium Battery market opportunities vary by end market size?

How does eVTOL Lithium Battery break out by Energy Density, by Application?

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