

Global Lithium-ion Power Batteries Market Growth 2026-2032

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Abstracts

The global Lithium-ion Power Batteries market size is predicted to grow from US\$ 157964 million in 2025 to US\$ 539569 million in 2032; it is expected to grow at a CAGR of 17.5% from 2026 to 2032.

Lithium-ion power batteries refer to rechargeable battery systems based on lithium-ion battery technology, specifically designed to provide driving energy for vehicles or equipment. They are mainly used in pure electric vehicles, plug-in hybrid electric vehicles, and range-extended electric vehicles. They enable energy storage, discharge driving, braking energy recovery, and safety monitoring. Based on the cathode material system, lithium-ion power batteries mainly include lithium iron phosphate batteries and ternary lithium batteries; based on cell shape, they can be divided into prismatic, cylindrical, and pouch cells. These batteries have high requirements for energy density, safety, cycle life, fast charging performance, low-temperature performance, consistency, and cost control, making them key components for the driving range, power performance, safety level, and overall cost of new energy vehicles. Global shipments reached 1495.1 GWh in 2025, with approximately 1,187 GWh installed in vehicles.

The global lithium-ion battery market is currently experiencing both rapid growth and significant adjustments. The penetration rate of new energy vehicles continues to rise, traditional automakers are accelerating their electrification transformation, and emerging electric vehicle manufacturers are driving product iterations. Plug-in hybrid, range-extended, and pure electric vehicles are collectively driving the expansion of battery demand. Lithium-ion batteries have become a core component influencing vehicle range, safety, fast charging, cost, and platform competitiveness, and their market size, technological routes, and supply chain layout are reshaping the competitive landscape of the global automotive industry.

From the demand side, passenger vehicles remain the primary application market for automotive lithium-ion batteries. Demand for pure electric vehicles continues to grow rapidly, while plug-in hybrid and range-extended vehicles are generating significant incremental growth in certain markets. The electrification of commercial vehicles, logistics vehicles, buses, sanitation vehicles, and special-purpose vehicles is also progressing, creating new market opportunities for batteries with high safety, long lifespan, and high cycle performance. At the same time, consumers' demands for longer range, faster recharging, lower operating costs, and higher safety are constantly increasing, driving automakers to continuously optimize battery system design and supplier systems.

From a product structure perspective, lithium iron phosphate (LFP) batteries and ternary lithium batteries remain the two mainstream routes in the automotive lithium-ion battery market. LFP batteries, with their cost advantages, safety, and cycle life, continue to increase their market share in low-to-mid-range models, commercial vehicles, and some high-performance passenger vehicles. Ternary lithium batteries, with their higher energy density, maintain competitiveness in applications requiring long driving range, high-end models, and those with significant lightweighting requirements. Square, cylindrical, and pouch battery routes coexist, and technologies such as blade batteries, short-blade batteries, large cylindrical batteries, high-voltage fast-charging batteries, CTP, CTC, semi-solid-state, and solid-state batteries continue to evolve. Industry competition is shifting from simply expanding production capacity to competition based on system efficiency, safety performance, and total lifecycle cost.

In terms of the industry chain, lithium-ion power batteries are highly correlated with key materials such as lithium, nickel, cobalt, manganese, iron, phosphorus, graphite, electrolytes, separators, copper foil, and aluminum foil. Fluctuations in raw material prices, resource acquisition capabilities, and supply chain security directly affect corporate profitability. Midstream companies are accelerating their deployment in cell manufacturing, module packaging, battery pack integration, BMS, and thermal management systems, while downstream OEMs are strengthening their supply chain control through long-term procurement agreements, joint ventures, self-developed batteries, and platform-based development. In the future, battery recycling, secondary use, and closed-loop materials will become crucial directions for cost reduction, carbon reduction, and improved resource security in the industry.

From a regional perspective, China possesses a complete industrial chain advantage in lithium-ion power battery materials, cells, equipment, and vehicle assembly, making it

the world's most important production and consumption market. Europe and North America are accelerating the construction of localized battery production capacity to support their local new energy vehicle industries and energy security strategies. Japanese and South Korean companies, relying on their technological accumulation, quality management, and international customer support experience, still hold significant influence in the global market. With the gradual development of the new energy vehicle markets in India, Southeast Asia, Latin America, and the Middle East, the global production capacity layout and localized service capabilities of lithium-ion power battery companies will become new competitive focuses.

Looking ahead, the global lithium-ion power battery market will continue to be driven by the electrification of vehicles, the improvement of fast-charging networks, vehicle platform upgrades, policy support, and technological advancements. However, risks such as overcapacity, price competition, technological shifts, safety regulations, international trade policies, and fluctuations in raw material supply will also bring uncertainties. Companies with large-scale manufacturing capabilities, cost control capabilities, customer certification capabilities, technological iteration capabilities, and global supply chain layouts will be in a more advantageous position in future competition.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lithium-ion Power Batteries and breaks down the forecast by Type, 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 Lithium-ion Power Batteries.

This report presents a comprehensive overview, market shares, and growth opportunities of Lithium-ion Power Batteries market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

LFP Battery

NCx Batteries

Others

Segmentation by Form:

Cylindrical Battery

Primitive Battery

Pouch Battery

Segmentation by Charge Rate:

2C Fast Charging Battery

4C Fast Charging Battery

5C+ Ultra-fast Charging Battery

Segmentation by Application:

BEV

PHEV

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

BYD

LG Energy Solution

Panasonic

Samsung SDI

SK On

Guoxuan High-tech

CALB Group

EVE Energy

Sunwoda

Farasis Energy

SVOLT Energy Technology

REPT BATTERO Energy

Tianjin EV Energies

Do-Fluoride New Materials

Inpai Battery

Cornex New Energy

Key Questions Addressed in this Report

What is the 10-year outlook for the global Lithium-ion Power Batteries market?

What factors are driving Lithium-ion Power Batteries market growth, globally and by region?

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

How do Lithium-ion Power Batteries market opportunities vary by end market size?

How does Lithium-ion Power Batteries break out by Type, by Application?

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