

Global Lithium-ion Power Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium-ion Power Battery market size is expected to reach \$ 538469 million by 2032, rising at a market growth of 16.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Lithium-ion Power Battery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Lithium-ion Power Battery total production and demand, 2021-2032, (GWh)
Global Lithium-ion Power Battery total production value, 2021-2032, (USD Million)
Global Lithium-ion Power Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (GWh), (based on production site)
Global Lithium-ion Power Battery consumption by region & country, CAGR, 2021-2032 & (GWh)
U.S. VS China: Lithium-ion Power Battery domestic production, consumption, key domestic manufacturers and share

Global Lithium-ion Power Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (GWh)

Global Lithium-ion Power Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GWh)

Global Lithium-ion Power Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (GWh)

This report profiles key players in the global Lithium-ion Power 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 CATL, BYD, LG Energy Solution, Panasonic, Samsung SDI, SK On, Guoxuan High-tech, CALB Group, EVE Energy, Sunwoda, 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 Lithium-ion Power Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (GWh) and average price (US\$/KWh) by manufacturer, by Type, 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 Lithium-ion Power Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium-ion Power Battery Market, Segmentation by Type:

LFP Battery

NCx Batteries

Others

Global Lithium-ion Power Battery Market, Segmentation by Form:

Cylindrical Battery

Primitive Battery

Pouch Battery

Global Lithium-ion Power Battery Market, Segmentation by Charge Rate:

2C Fast Charging Battery

4C Fast Charging Battery

5C+ Ultra-fast Charging Battery

Global Lithium-ion Power Battery Market, Segmentation by Application:

BEV

PHEV

Companies Profiled:

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 Answered:

1. How big is the global Lithium-ion Power Battery market?
2. What is the demand of the global Lithium-ion Power Battery market?
3. What is the year over year growth of the global Lithium-ion Power Battery market?
4. What is the production and production value of the global Lithium-ion Power Battery market?
5. Who are the key producers in the global Lithium-ion Power Battery market?
6. What are the growth factors driving the market demand?

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