+357 96 030922
info@marketpublishers.com

Global Lithium-ion Batteries for Automotive Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G45A5D7EDFCEEN.html
Date: August 2026
Pages: 146
Price: US$ 4,480.00 (Single User License)
ID: G45A5D7EDFCEEN

Abstracts

The global Lithium-ion Batteries for Automotive 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 Batteries for Automotive refer to lithium-ion battery products used in automotive electrification and on-board power supply systems. They are mainly used in pure electric vehicles, plug-in hybrid electric vehicles, range-extended electric vehicles, hybrid electric vehicles, low-voltage auxiliary power supplies, and some on-board electronic devices. They provide driving energy, regenerative braking, low-voltage power supply, and safety monitoring for vehicles. Based on material systems, automotive lithium-ion batteries mainly include lithium iron phosphate batteries, ternary lithium batteries, lithium manganese oxide batteries, and lithium titanate batteries. These batteries have high requirements for safety, energy density, cycle life, fast charging performance, low-temperature performance, consistency, and cost control, making them crucial core components for the range, power performance, 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 automotive lithium-ion battery market is experiencing rapid expansion and continuously extending application boundaries. With the increasing penetration rate of new energy vehicles, the electrification upgrade of traditional fuel vehicles, the growth of hybrid models, and the increasing complexity of in-vehicle electronic systems, the demand for lithium-ion batteries in the automotive sector is constantly expanding. Automotive lithium-ion batteries have gradually extended from being a core component of new energy vehicle power systems to hybrid systems, low-voltage auxiliary power supplies, smart cockpits, in-vehicle power management, and some vehicle electronic

+357 96 030922
info@marketpublishers.com

scenarios, becoming a key foundational link in the electrification and intelligentization of automobiles.

From the demand side, pure electric vehicles, plug-in hybrid electric vehicles, and range-extended electric vehicles remain the main drivers of market growth. Automakers continue to launch electrification platforms, and consumers' demands for driving range, fast charging speed, safety, and operating costs are constantly increasing, driving continuous upgrades in automotive lithium batteries in terms of energy density, cycle life, low-temperature performance, and thermal safety. At the same time, 48V mild hybrid systems, the replacement of lead-acid batteries with low-voltage lithium batteries, and the increasing electronic loads in smart vehicles are also bringing new application opportunities for automotive lithium-ion batteries. In the future, the demand for automotive batteries will no longer be determined solely by the installed capacity of power batteries, but will be driven by the combined effects of the vehicle's high-voltage system, low-voltage power supply, and intelligent electronic systems.

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

In terms of the industry chain, automotive lithium-ion 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 security, and supply chain security significantly impact corporate profitability. Midstream cell, module, battery pack, BMS, thermal management system, and structural component companies are accelerating platform-based development, while downstream OEMs are strengthening supply chain control through long-term procurement agreements, joint ventures, self-developed batteries, standardized battery packs, and vertical integration. As battery recycling, secondary use, and material closed-

+357 96 030922
info@marketpublishers.com

loop systems gradually improve, resource recycling capabilities will become a crucial competitive advantage for automotive lithium battery companies.

From a regional market perspective, China possesses a complete industrial chain advantage in automotive lithium-ion battery materials, cell manufacturing, equipment supply, and vehicle applications, making it the world's most important production and consumption market. Europe and North America are accelerating the construction of domestic battery production capacity to support the security of their local new energy vehicle industrial and supply chains. Japanese and South Korean companies, leveraging their technological accumulation, quality management, and international customer support experience, remain highly competitive in the global high-end market. With the rise of automotive electrification, India, Southeast Asia, Latin America, and the Middle East will also become important growth areas for future corporate globalization.

Looking ahead, the global automotive lithium-ion battery market will continue to be driven by the combined effects of increased sales of new energy vehicles, the expansion of hybrid models, the replacement of low-voltage lithium batteries with high-voltage ones, the improvement of fast-charging infrastructure, and the upgrading of vehicle intelligence. However, challenges will also arise from capacity cycles, price competition, technology shifts, safety regulations, international trade policies, and fluctuations in raw material supply. Companies with large-scale manufacturing capabilities, technological iteration capabilities, customer certification capabilities, cost control capabilities, and global supply chain layouts will be in a more advantageous position in future competition.

This report studies the global Lithium-ion Batteries for Automotive production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Lithium-ion Batteries for Automotive total production and demand, 2021-2032, (GWh)
Global Lithium-ion Batteries for Automotive total production value, 2021-2032, (USD

+357 96 030922
info@marketpublishers.com

Million)
Global Lithium-ion Batteries for Automotive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (GWh), (based on production site)
Global Lithium-ion Batteries for Automotive consumption by region & country, CAGR, 2021-2032 & (GWh)
U.S. VS China: Lithium-ion Batteries for Automotive domestic production, consumption, key domestic manufacturers and share
Global Lithium-ion Batteries for Automotive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (GWh)
Global Lithium-ion Batteries for Automotive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GWh)
Global Lithium-ion Batteries for Automotive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (GWh)

This report profiles key players in the global Lithium-ion Batteries for Automotive 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 Batteries for Automotive 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 Batteries for Automotive Market, By Region:

United States

+357 96 030922
info@marketpublishers.com

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium-ion Batteries for Automotive Market, Segmentation by Type:

LFP Battery

NCx Batteries

Others

Global Lithium-ion Batteries for Automotive Market, Segmentation by Form:

Cylindrical Battery

Primitive Battery

Pouch Battery

Global Lithium-ion Batteries for Automotive Market, Segmentation by Charge Rate:

2C Fast Charging Battery

4C Fast Charging Battery

+357 96 030922
info@marketpublishers.com

5C+ Ultra-fast Charging Battery

Global Lithium-ion Batteries for Automotive 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

+357 96 030922
info@marketpublishers.com

Do-Fluoride New Materials

Inpai Battery

Cornex New Energy

Key Questions Answered:
1. How big is the global Lithium-ion Batteries for Automotive market?
2. What is the demand of the global Lithium-ion Batteries for Automotive market?
3. What is the year over year growth of the global Lithium-ion Batteries for Automotive market?
4. What is the production and production value of the global Lithium-ion Batteries for Automotive market?
5. Who are the key producers in the global Lithium-ion Batteries for Automotive market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8 MARKET ANALYSIS BY APPLICATION

9 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Lithium-ion Batteries for Automotive Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G45A5D7EDFCEEN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G45A5D7EDFCEEN.html