+357 96 030922
info@marketpublishers.com

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

https://marketpublishers.com/r/GAC951E499B0EN.html
Date: August 2026
Pages: 138
Price: US$ 4,480.00 (Single User License)
ID: GAC951E499B0EN

Abstracts

The global Automotive Lithium 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).

Automotive lithium batteries refer to lithium-ion battery products used in automotive electrification and on-board power supply systems. 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 currently experiencing rapid expansion and structural upgrades. The increasing penetration rate of new energy vehicles, the accelerated popularization of hybrid models, and the increasing electrification of gasoline vehicles are driving the extension of automotive lithium-ion batteries from high-voltage power systems to low-voltage auxiliary power supplies, on-board electronics, and intelligent power supply scenarios. As OEMs compete on range, safety, fast charging, cost, and platform development, automotive lithium-ion batteries have become a key link influencing vehicle product competitiveness, supply chain security, and value distribution across the industry chain.

From the demand side, pure electric vehicles remain the primary driver of growth in

+357 96 030922
info@marketpublishers.com

automotive lithium-ion battery demand, while plug-in hybrid electric vehicles, range-extended electric vehicles, electric commercial vehicles, logistics vehicles, buses, and special-purpose vehicles continue to contribute to incremental growth. Simultaneously, 48V mild hybrid systems, the replacement of traditional lead-acid batteries with low-voltage lithium-ion batteries, smart cockpits, autonomous driving sensors, and the increase in on-board electronic loads are also bringing richer application scenarios for automotive lithium-ion batteries. In the future, market demand will no longer be driven solely by the installed capacity of new energy vehicles, but will be jointly driven by the high-voltage power systems, low-voltage power supply systems, and intelligent electronic systems of vehicles.

From a product structure perspective, lithium iron phosphate (LFP) and ternary lithium batteries remain the two mainstream technologies in the automotive lithium battery market. LFP, with its advantages in cost, safety, and cycle life, continues to increase its market share in low-to-mid-range passenger vehicles, commercial vehicles, and high-performance models. Ternary lithium, with its higher energy density, maintains an important position in applications requiring long driving range, high-end models, and those with significant lightweighting requirements. Square, cylindrical, and pouch batteries coexist, and advancements continue in areas such as blade batteries, short-blade batteries, large cylindrical batteries, high-voltage fast charging, CTP, CTC, semi-solid-state, and solid-state batteries. 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 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 directly impact corporate profitability. Midstream cell, module, battery pack, BMS, thermal management system, and structural component companies are accelerating their platform-based, automated, and global manufacturing layouts, while downstream OEMs are strengthening their 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-loop systems gradually improve, resource recycling capabilities will become a crucial direction for companies to reduce costs, increase efficiency, and enhance competitiveness.

From a regional market perspective, China maintains a leading advantage in the global automotive lithium battery market thanks to its complete industrial chain encompassing

+357 96 030922
info@marketpublishers.com

materials, cells, equipment, and OEM components. Europe and North America are accelerating the construction of localized battery production capacity to support their local new energy vehicle industries and supply chain security strategies. Japanese and South Korean companies, relying on their technological accumulation, quality management, and international customer support experience, remain highly competitive in the high-end market. India, Southeast Asia, Latin America, and the Middle East, with the onset of automotive electrification, will also become important growth areas for companies' future global expansion.

Looking ahead, the global automotive lithium battery market will continue to be driven by the growth in new energy vehicle sales, the expansion of hybrid models, the improvement of fast-charging networks, the replacement of low-voltage lithium batteries, and the development of intelligent vehicles. However, challenges will also arise from temporary overcapacity, price competition, technological 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 Automotive Lithium Battery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

+357 96 030922
info@marketpublishers.com

and market share 2021-2026, (USD Million) & (GWh)
Global Automotive Lithium Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GWh)
Global Automotive Lithium Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (GWh)

This report profiles key players in the global Automotive Lithium 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 Automotive Lithium 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 Automotive Lithium Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

+357 96 030922
info@marketpublishers.com

India

Rest of World

Global Automotive Lithium Battery Market, Segmentation by Type:

LFP Battery

NCx Batteries

Others

Global Automotive Lithium Battery Market, Segmentation by Form:

Cylindrical Battery

Primitive Battery

Pouch Battery

Global Automotive Lithium Battery Market, Segmentation by Charge Rate:

2C Fast Charging Battery

4C Fast Charging Battery

5C+ Ultra-fast Charging Battery

Global Automotive Lithium Battery Market, Segmentation by Application:

Passenger Car

Commercial Vehicles

+357 96 030922
info@marketpublishers.com

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 Automotive Lithium Battery market?

+357 96 030922
info@marketpublishers.com

2. What is the demand of the global Automotive Lithium Battery market?
3. What is the year over year growth of the global Automotive Lithium Battery market?
4. What is the production and production value of the global Automotive Lithium Battery market?
5. Who are the key producers in the global Automotive Lithium Battery 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

6 MARKET ANALYSIS BY FORM

+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 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

I would like to order

Product name: Global Automotive Lithium Battery Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/GAC951E499B0EN.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/GAC951E499B0EN.html