

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

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Abstracts

The global Automotive Semi-Solid Lithium Battery market size is expected to reach \$ 12380 million by 2032, rising at a market growth of 29.9% CAGR during the forecast period (2026-2032).

In 2025, global installed capacity of automotive-grade semi-solid lithium batteries reached approximately 12.40 GWh, with an average selling price of around USD 195 per kWh. Automotive semi-solid lithium batteries are a class of traction batteries that significantly reduce the proportion of free liquid electrolyte by adopting gel-like or quasi-solid electrolyte systems, while meeting the stringent safety, reliability, and consistency requirements of automotive applications. While remaining highly compatible with existing lithium-ion manufacturing processes, these batteries demonstrate clear advantages in thermal stability, resistance to thermal runaway, potential for higher energy density, and compatibility with high-nickel cathode materials. They are widely regarded as a critical transitional solution in the evolution from liquid lithium batteries to all-solid-state batteries and have begun to see real-world deployment in selected premium vehicle models and pilot programs.

At present, the automotive semi-solid lithium battery market remains in an early stage of commercialization, with a development pace notably slower than that of non-automotive semi-solid battery applications, yet characterized by higher technical barriers and stronger long-term certainty. Market conditions indicate that this segment is primarily driven by leading power battery manufacturers with comprehensive capabilities in materials systems, cell design, and automotive qualification processes, while downstream automakers tend to adopt these batteries first in premium models or platforms prioritizing safety performance. In terms of trends, the industry is focusing on improving battery stability under high-temperature, high-rate, and long-cycle conditions, while gradually reducing manufacturing costs and expanding scalable production through structural optimization and process maturity. Market perspectives suggest that

automotive semi-solid lithium batteries are not positioned to replace liquid traction batteries in the short term, but rather represent a transitional technology with clear commercial value and practical deployment pathways during the window period before all-solid-state batteries achieve large-scale viability.

This report studies the global Automotive Semi-Solid Lithium Battery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Semi-Solid Lithium Battery total production and demand, 2021-2032, (kWh)

Global Automotive Semi-Solid Lithium Battery total production value, 2021-2032, (USD Million)

Global Automotive Semi-Solid Lithium Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kWh), (based on production site)

Global Automotive Semi-Solid Lithium Battery consumption by region & country, CAGR, 2021-2032 & (kWh)

U.S. VS China: Automotive Semi-Solid Lithium Battery domestic production, consumption, key domestic manufacturers and share

Global Automotive Semi-Solid Lithium Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kWh)

Global Automotive Semi-Solid Lithium Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kWh)

Global Automotive Semi-Solid Lithium Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kWh)

This report profiles key players in the global Automotive Semi-Solid 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 24M, Beijing WeLion New Energy Technology Co., Ltd., Ganfeng Lithium Co., Ltd., Gotion High-Tech Co., Ltd., Farasis Energy, SES AI Corporation, StoreDot Ltd., EVE Energy Co., Ltd., QingTao Energy Development Co., Ltd., Changan Automobile, 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 Semi-Solid Lithium Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kWh) and average price (USD/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 Semi-Solid Lithium Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Semi-Solid Lithium Battery Market, Segmentation by Type:

Organic Electrolyte

Inorganic Electrolyte

Global Automotive Semi-Solid Lithium Battery Market, Segmentation by Cell Format:

Pouch-Type Semi-Solid Battery

Prismatic Semi-Solid Battery

Global Automotive Semi-Solid Lithium Battery Market, Segmentation by Anode Material:

Graphite Anode Semi-Solid Battery

Silicon-Based Anode Semi-Solid Battery

Global Automotive Semi-Solid Lithium Battery Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

24M

Beijing WeLion New Energy Technology Co., Ltd.

Ganfeng Lithium Co., Ltd.

Gotion High-Tech Co., Ltd.

Farasis Energy

SES AI Corporation

StoreDot Ltd.

EVE Energy Co., Ltd.

QingTao Energy Development Co., Ltd.

Changan Automobile

LG Energy Solution, Ltd.

Jiangsu Zenergy Battery Technologies Co., Ltd.

Shenzhen Grepow Battery

Shenzhen BAK Power Battery

Key Questions Answered:

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

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