

Global Semi-solid Battery for Automotive Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Semi-solid Battery for Automotive competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Solid-state batteries refer to lithium batteries that use solid electrolytes instead of electrolytes. According to the amount of solid electrolyte, it can be subdivided into two categories: semi-solid batteries and all-solid batteries: 1) Semi-solid battery: The electrolyte is in the form of a solid-liquid mixture, and the mass proportion of liquid (electrolyte) in the battery is about 5-10%. Essentially a compromise between liquid lithium batteries and all-solid-state batteries. 2) All-solid-state battery: completely uses solid electrolyte instead of electrolyte. Generally, "10% of the liquid mass in the battery" is used as the dividing line between semi-solid batteries and liquid batteries. A semi-solid battery is one in which one electrode does not contain a liquid electrolyte and the other electrode contains a liquid electrolyte. Or the mass or volume of the solid electrolyte in the monomer accounts for half of the total mass or volume of the electrolyte in the monomer. Compared with existing lithium-ion batteries, semi-solid batteries are smaller, more stable, safer, can achieve higher energy density, and are much cheaper than lithium-ion batteries. It is generally believed that the upper limit of energy density of liquid lithium-ion batteries is about 300Wh/kg-400Wh/kg. The theoretical energy density of solid-state batteries is as high as 700Wh/kg, which is almost twice the data of the most advanced lithium batteries. Semi-solid batteries use solid electrolytes, which do not affect energy density. Low temperatures can affect battery performance. This effectively solves the problem of winter range discounts for pure electric vehicles. Semi-solid batteries or solid-state batteries have no liquid matter, or have much less liquid matter. Therefore, when damage or puncture occurs, spontaneous combustion or explosion will be effectively avoided. At a critical juncture in

power battery technology undergoing profound transformation, semi-solid-state batteries are no longer a futuristic technological concept; they are now a real force in automotive manufacturing. Since 2024, models such as the NIO ET7 and Zhiji L6 have been the first to be equipped with 150kWh semi-solid-state battery packs, achieving a range exceeding 1,000 kilometers and significantly improved fast-charging performance. This marks the official entry of semi-solid-state batteries into the commercial application verification stage. Compared to traditional lithium-ion batteries, semi-solid-state technology not only offers higher energy density and enhanced safety, but also offers excellent cost control and process compatibility, making it a key tool for automakers to seize the commanding heights of the new round of electrification competition. Today, major global electric vehicle companies are accelerating their deployment of semi-solid-state battery technology. Chinese companies such as Beijing WeLion and Ganfeng Lithium have already achieved mass production and continue to advance the technology. Driven by their technological advantages in balancing energy density, safety, and manufacturing costs, semi-solid-state batteries are rapidly transitioning from high-end vehicle verification to large-scale application. Over the next three years, the penetration of this technology in the electric vehicle battery market is expected to continue to increase.

The global Semi-solid Battery for Automotive market size was estimated at USD 381.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 48.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Semi-solid Battery for Automotive market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Semi-solid Battery for Automotive market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Semi-solid Battery for Automotive market.

Global Semi-solid Battery for Automotive Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

24M
Beijing WeLion
Ganfeng Lithium Industry
Hefei Gotion High-tech
Farasis Energy
SES AI
StoreDot
EVE Energy
QingTao (KunShan) Energy
Chongqing Changan Automobile
LGES

Market Segmentation (by Type)

Oxide Semi-solid Battery
Polymer Semi-solid Battery

Market Segmentation (by Application)

Passenger Vehicle
Commercial Vehicle

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Semi-solid Battery for Automotive Market
Overview of the regional outlook of the Semi-solid Battery for Automotive Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division

standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Semi-solid Battery for Automotive Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Semi-solid Battery for Automotive, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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