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Global Semi-solid Battery for Automotive Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Semi-solid Battery for Automotive market size was valued at US$ 2433 million in 2025 and is forecast to a readjusted size of US$ 36130 million by 2032 with a CAGR of 47.6% during review period.

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.

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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.

This report is a detailed and comprehensive analysis for global Semi-solid Battery for Automotive market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semi-solid Battery for Automotive market size and forecasts, in consumption value ($ Million), sales quantity (MWh), and average selling prices (USD/KWh),

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2021-2032

Global Semi-solid Battery for Automotive market size and forecasts by region and country, in consumption value ($ Million), sales quantity (MWh), and average selling prices (USD/KWh), 2021-2032

Global Semi-solid Battery for Automotive market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (MWh), and average selling prices (USD/KWh), 2021-2032

Global Semi-solid Battery for Automotive market shares of main players, shipments in revenue ($ Million), sales quantity (MWh), and ASP (USD/KWh), 2021-2026

The Primary Objectives in This Report Are:
To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Semi-solid Battery for Automotive
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Semi-solid Battery for Automotive market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 24M, Beijing WeLion, Ganfeng Lithium Industry, Hefei Gotion High-tech, Farasis Energy, SES AI, StoreDot, EVE Energy, QingTao (KunShan) Energy, Chongqing Changan Automobile, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Semi-solid Battery for Automotive market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

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Oxide Semi-solid Battery

Polymer Semi-solid Battery

Market segment by Application

Passenger Vehicle

Commercial Vehicle

Major players covered

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 segment by region, regional analysis covers
North America (United States, Canada, and Mexico)

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Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Semi-solid Battery for Automotive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semi-solid Battery for Automotive, with price, sales quantity, revenue, and global market share of Semi-solid Battery for Automotive from 2021 to 2026.

Chapter 3, the Semi-solid Battery for Automotive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semi-solid Battery for Automotive breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Semi-solid Battery for Automotive market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Semi-solid Battery for Automotive.

Chapter 14 and 15, to describe Semi-solid Battery for Automotive sales channel, distributors, customers, research findings and conclusion.

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