

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

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## Abstracts

The global Automotive Semi-Solid Battery Pack market size is expected to reach \$ 2692 million by 2032, rising at a market growth of 28.0% CAGR during the forecast period (2026-2032).

An Automotive Semi-Solid Battery Pack is a vehicle battery pack that uses semi-solid-state battery cells, where the electrolyte is usually a gel-like, paste-like, or partially solid electrolyte system rather than a fully liquid electrolyte. Compared with traditional lithium-ion battery packs, semi-solid battery packs are designed to improve energy density, safety, thermal stability, and fast-charging performance, while still retaining some compatibility with existing lithium battery manufacturing processes. They are mainly used in electric vehicles, especially passenger EVs, high-end EVs, long-range vehicles, and future intelligent mobility platforms. In 2025, global Automotive Semi-Solid Battery Pack production reached approximately 18772 units, with an average global market price of around 25 k USD/unit. The production capacity for Automotive Semi-Solid Battery Pack in 2025 was approximately 20000 units. The typical gross profit margin for Automotive Semi-Solid Battery Pack between 20% and 40%.

The Automotive Semi-Solid Battery Pack market is an emerging segment of the electric vehicle battery industry, positioned between conventional liquid lithium-ion batteries and fully solid-state batteries. Market growth is mainly driven by automakers' demand for higher driving range, improved battery safety, faster charging, and lighter battery systems. Semi-solid battery packs are expected to be adopted first in premium electric vehicles and long-range models, where customers are more willing to pay for higher energy density and advanced battery technology. However, the market still faces challenges such as high production cost, limited large-scale manufacturing experience, supply chain maturity, and the need for long-term reliability validation.

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

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

Highlights and key features of the study

Global Automotive Semi-Solid Battery Pack total production and demand, 2021-2032, (Units)

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

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

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

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

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

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

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

This report profiles key players in the global Automotive Semi-Solid Battery Pack 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, SES AI, StoreDot, LGES, Beijing WeLion, Ganfeng Lithium Industry, Hefei Gotion High-tech, Farasis Energy, EVE Energy, QingTao (KunShan) Energy, 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 Battery Pack market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$Unit) 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 Battery Pack Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Gel-type Semi-solid-state Battery

Slurry-type Semi-solid-state Battery

Hybrid Semi-solid-state Battery

Global Automotive Semi-Solid Battery Pack Market, Segmentation by Electrolyte

**System:**

Polymer Semi-solid Battery

Oxide Semi-solid Battery

Sulfide Semi-solid Battery

**Global Automotive Semi-Solid Battery Pack Market, Segmentation by Battery Shape:**

Square Semi-solid-state Battery

Pouch Semi-solid-state Battery

Cylindrical Semi-solid-state Battery

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

Passenger Vehicle

Commercial Vehicle

**Companies Profiled:**

24M

SES AI

StoreDot

LGES

Beijing WeLion

Ganfeng Lithium Industry

Hefei Gotion High-tech

Farasis Energy

EVE Energy

QingTao (KunShan) Energy

Chongqing Changan Aut

**Key Questions Answered:**

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

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