

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

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Abstracts

The global Automotive Solid-State Battery market size is expected to reach \$ 28630 million by 2032, rising at a market growth of 46.2% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Solid-State Battery production reached approximately 9.68 million kilowatts, with an average global market price of around US\$200 per kilowatt. Automotive solid-state batteries are traction batteries for EVs that replace the liquid electrolyte/separator system in conventional lithium-ion cells with a solid electrolyte (e.g., sulfide, oxide, or polymer). This architecture aims to improve safety, unlock higher energy-density potential, enable faster charging, and broaden operating temperature ranges. SSBs are often paired with high-nickel cathodes and advanced anodes (lithium metal or silicon-carbon) to boost performance, but they still face key engineering hurdles such as interfacial resistance, yield and manufacturability, material cost, and scalable production processes?so commercialization is progressing through validation samples and pilot-scale ramp-up.

Upstream includes lithium chemicals and key precursors (Li₂CO₃/LiOH), cathode materials (high-Ni NCM/NCA, LFP and precursors), anode materials (lithium metal, silicon-carbon, Cu/Al current collectors), solid electrolyte materials (sulfide routes often rely on precursors such as Li₂S; oxide routes use ceramic electrolytes like LLZO; polymer routes use polymer electrolytes and additives), plus critical manufacturing inputs and equipment (dry/low-solvent processing, pressing/calendering, stacking/winding, packaging, and inspection/safety validation). A representative upstream supply-chain signal is Idemitsu's lithium sulfide capacity build-out tied to Toyota's solid-state commercialization pathway; lithium producers are also positioning high-purity precursors for sulfide electrolytes. Midstream players are cell makers and material/process co-developers working on electrolyte formulation, interface engineering, composite electrodes, cell architecture, and pack/BMS adaptation.

Downstream demand comes from OEMs and battery system integrators for pack integration, validation, and production launch?typically starting with high-end EV programs where safety and energy density are prioritized.

The automotive solid-state battery market is at a pivotal transition from ?technology race? to ?manufacturing execution.? OEMs and battery makers are still attracted by the long-term upside in energy density and safety, but near-term decisions increasingly prioritize manufacturability, yield ramp, and supply-chain controllability?leading to parallel tracks where semi-solid/near-solid solutions may appear before true all-solid designs, often launching in premium vehicle programs first. Key trends include scaling solid electrolyte production, stabilizing interfaces and managing moisture/oxygen sensitivity, while cell developers focus on composite electrode architecture, pressure management, fast-charge thermal control, and consistency engineering. Collaboration across the value chain is also tightening, with upstream precursor/material suppliers, cell makers, and OEMs co-validating and co-defining specifications. Core drivers are demand for better range and fast-charge experience, rising safety and compliance requirements, and premium-segment differentiation. Major headwinds include solid-solid interfacial contact and cycle-life constraints, narrow process windows that depress yield and raise cost, strict dry-room and capex requirements, uncertainty in specialized precursor supply, and long automotive qualification cycles?making commercialization more likely to advance in staged, program-driven waves rather than a uniform, rapid switch.

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

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

Highlights and key features of the study

Global Automotive Solid-State Battery total production and demand, 2021-2032, (MW)

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

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

Global Automotive Solid-State Battery consumption by region & country, CAGR, 2021-2032 & (MW)

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

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

Global Automotive Solid-State Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Automotive Solid-State Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Automotive Solid-State 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 Toyota, Enevate, Hitachi, Ilika, Johnson Battery Technologies, LG Chem, NanoGraf, Nichia, Nippon Chemical Industrial, Panasonic, 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 Solid-State Battery market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Solid-State Battery Market, Segmentation by Type:

Semi-solid

Quasi-solid

Solid

Global Automotive Solid-State Battery Market, Segmentation by Solid Electrolyte:

Sulfide Solid

Oxide Solid

Polymer Solid

Others

Global Automotive Solid-State Battery Market, Segmentation by Anode Materials:

Lithium Metal Anode

Silicon-Carbon Anode

Others

Global Automotive Solid-State Battery Market, Segmentation by Application:

Commercial Vehicle

Passenger Car

Companies Profiled:

Toyota

Enevate

Hitachi

Ilika

Johnson Battery Technologies

LG Chem

NanoGraf

Nichia

Nippon Chemical Industrial

Panasonic

QuantumScape

Sakti3

Samsung SDI

Sila Nanotechnologies

Solid Power

24M

Solid Power

CATL

BYD

Ganfeng Lithium

WeLion New Energy

Farasis Energy

ProLogium Technology

Gotion

EVE Energy

Great Power

Talent New Energy

Qingtao Energy

Key Questions Answered:

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

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