

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

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Abstracts

The global Semi-Solid Lithium Battery market size is expected to reach \$ 15820 million by 2032, rising at a market growth of 27.6% CAGR during the forecast period (2026-2032).

In 2025, global installed production of semi-solid lithium batteries reached approximately 18.65 GWh, with an average selling price of around USD 185 per kWh. Semi-solid lithium batteries represent a battery technology that significantly reduces the proportion of free liquid electrolyte by introducing gel-like or highly viscous solid-state electrolyte systems, while remaining largely compatible with existing lithium-ion manufacturing processes. Compared with conventional liquid lithium-ion batteries, semi-solid lithium batteries offer notable advantages in thermal stability, puncture resistance, and compatibility with high-nickel cathode materials. They are widely regarded as a critical transitional technology toward all-solid-state batteries and have begun to achieve early-stage commercial deployment in new energy vehicles, high-end energy storage systems, and selected aerospace and specialized equipment applications.

At present, the semi-solid lithium battery market is at a critical transition stage from technology validation to early-scale commercialization. Its development pace is notably faster than that of all-solid-state batteries, yet still significantly slower than the mature liquid lithium-ion battery ecosystem. From a market perspective, semi-solid batteries are primarily driven by a limited number of manufacturers with strong capabilities in materials, electrolytes, and system integration, with downstream applications concentrated in scenarios demanding enhanced safety and higher energy density. In terms of trends, the industry is focusing on further reducing liquid electrolyte content, improving ionic conductivity and interfacial stability, and achieving controllable costs through structural optimization and process refinement. Market perspectives suggest that semi-solid lithium batteries are not a simple replacement for liquid batteries, but rather a transitional solution with a clear commercialization window and tangible value

under tightening safety regulations, rising demand for high-end applications, and the immaturity of all-solid-state technologies.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 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 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 Semi-Solid Lithium Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Low Energy Density

Medium Energy Density

High Energy Density

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

Pouch-Type Semi-Solid Battery

Prismatic Semi-Solid Battery

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

Graphite Anode Semi-Solid Battery

Silicon-Based Anode Semi-Solid Battery

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

Drones

Robots

Energy Storage Systems

Electric Vehicles

Others

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

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