

# **Global Automotive Solid-Liquid Hybrid Traction Battery 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 Automotive Solid-Liquid Hybrid Traction Battery market size was valued at US\$ 103 million in 2025 and is forecast to a readjusted size of US\$ 15041 million by 2032 with a CAGR of 83.3% during review period.

Automotive Solid-Liquid Hybrid Traction Battery refers to a vehicle traction battery designed for electric driving systems, in which liquid electrolyte and solid electrolyte materials are combined within the battery cell. It is mainly used to provide propulsion energy for battery electric vehicles, plug-in hybrid vehicles, extended-range electric vehicles and other electrified vehicle platforms. Compared with conventional liquid lithium-ion traction batteries, this type of battery aims to improve thermal stability, safety performance, energy density, high-temperature resistance and long-term reliability while maintaining practical compatibility with automotive battery manufacturing processes. It is a key energy component of the vehicle powertrain system and directly affects driving range, acceleration performance, charging efficiency, battery safety and overall vehicle competitiveness.

The main raw materials include cathode materials such as lithium iron phosphate, ternary materials, high-nickel cathode materials and lithium manganese iron phosphate; anode materials such as graphite, silicon-carbon and lithium metal; electrolyte materials such as liquid electrolyte, oxide solid electrolyte, sulfide solid electrolyte, polymer electrolyte, halide electrolyte and composite solid electrolyte; as well as separators, copper foil, aluminum foil, binders, conductive additives, battery housings, insulation materials and thermal management materials. The upstream suppliers mainly include lithium resource companies, cathode and anode material manufacturers, electrolyte and

solid electrolyte suppliers, separator manufacturers and battery equipment companies. Downstream customers are mainly automakers, including electric passenger vehicle OEMs, plug-in hybrid vehicle manufacturers, electric commercial vehicle manufacturers, battery pack suppliers and automotive powertrain system integrators.

In 2025, global Automotive Solid-Liquid Hybrid Traction Battery production reached approximately 2.3 GWh, with an average market price of around US\$43.4 per kWh.

The Automotive Solid-Liquid Hybrid Traction Battery market is developing along with the rapid electrification of the global automotive industry. As automakers compete on driving range, battery safety, charging speed, vehicle efficiency and platform differentiation, demand for higher-performance traction batteries is increasing. Solid-liquid hybrid traction batteries are positioned as an upgraded automotive battery solution because they can improve safety and thermal stability while supporting higher energy density and vehicle-grade reliability. They are especially suitable for mid-to-high-end electric vehicles, long-range models, fast-charging platforms and vehicle platforms with stricter battery safety requirements.

In terms of technology trends, the market is moving toward higher energy density, lower liquid electrolyte content, improved solid-liquid interface stability and better fast-charging performance. Material systems are becoming more diversified, including lithium iron phosphate combined with composite electrolytes, high-nickel cathodes combined with silicon-carbon anodes, and lithium metal anode systems for higher-end applications. Battery manufacturers are also improving coating, lamination, electrolyte infiltration, interface modification, formation, testing and battery pack integration processes to meet automotive-grade consistency, durability and safety standards.

From a regional perspective, China is one of the most active markets, supported by large electric vehicle production, a complete battery material supply chain, fast product iteration by domestic automakers and strong demand for advanced traction battery technologies. Japan and South Korea have strengths in battery materials, precision manufacturing and vehicle-grade quality control. Europe and North America are accelerating development through vehicle electrification strategies, localized battery supply chain investment and cooperation between automakers and advanced battery technology companies.

The main growth drivers include the continued expansion of electric vehicle production, consumer demand for longer driving range, stricter safety requirements for power

batteries, faster development of high-voltage fast-charging platforms and stronger competition among automakers. In addition, winter driving performance, battery thermal management, charging convenience and vehicle lightweighting are becoming important factors in battery selection. Progress in silicon-carbon anodes, high-nickel cathodes, composite solid electrolytes, separators, flame-retardant materials, battery management systems and pack thermal management also supports market growth. However, the market still faces challenges such as high material cost, complex process control, long automotive validation cycles, solid-liquid interface stability and mass production yield improvement.

This report is a detailed and comprehensive analysis for global Automotive Solid-Liquid Hybrid Traction Battery 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 Automotive Solid-Liquid Hybrid Traction Battery market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Automotive Solid-Liquid Hybrid Traction Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Automotive Solid-Liquid Hybrid Traction Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Automotive Solid-Liquid Hybrid Traction Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/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 Automotive Solid-Liquid Hybrid Traction Battery

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 Automotive Solid-Liquid Hybrid Traction Battery 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 CATL, WeLion New Energy, QingTao Energy, Ganfeng LiEnergy, Farasis Energy, SVOLT Energy Technology, CALB Group, Gotion High-tech, Sunwoda, Great Power, etc.

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

## Market Segmentation

Automotive Solid-Liquid Hybrid Traction Battery 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

Oxide-based Solid-Liquid Hybrid Power Battery

Sulfide-based Solid-Liquid Hybrid Power Battery

Polymer-based Solid-Liquid Hybrid Power Battery

Others

### Market segment by Anode Material System

Graphite Anode Solid-Liquid Hybrid Power Battery

Silicon-Carbon Anode Solid-Liquid Hybrid Power Battery

Lithium Metal Anode Solid-Liquid Hybrid Power Battery

#### Market segment by Application

Passenger Car

Commercial Vehicle

#### Major players covered

CATL

WeLion New Energy

QingTao Energy

Ganfeng LiEnergy

Farasis Energy

SVOLT Energy Technology

CALB Group

Gotion High-tech

Sunwoda

Great Power

Talent New Energy

Narada Power

SES AI

Factorial Energy

ProLogium Technology

Blue Solutions

24M Technologies

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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 Automotive Solid-Liquid Hybrid Traction Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Solid-Liquid Hybrid Traction Battery, with price, sales quantity, revenue, and global market share of Automotive Solid-Liquid Hybrid Traction Battery from 2021 to 2026.

Chapter 3, the Automotive Solid-Liquid Hybrid Traction Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Solid-Liquid Hybrid Traction Battery 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 Automotive Solid-Liquid Hybrid Traction Battery 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 Automotive Solid-Liquid Hybrid Traction Battery.

Chapter 14 and 15, to describe Automotive Solid-Liquid Hybrid Traction Battery sales channel, distributors, customers, research findings and conclusion.

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