

Global Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid 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.

Electric Vehicle Hybrid Solid-Liquid Battery refers to a traction battery used specifically in electric vehicles, in which liquid electrolyte and solid electrolyte materials coexist within the battery cell. This type of battery is designed to support vehicle propulsion, driving range, acceleration performance, fast charging, thermal stability and overall safety. Compared with conventional liquid lithium-ion batteries, the hybrid solid-liquid system improves electrolyte stability, reduces leakage risk, enhances resistance to thermal runaway, and supports higher energy density while maintaining practical manufacturability for automotive applications. It is mainly used in battery electric vehicles and can also be applied to electric vehicle platforms that require higher safety, longer range and better performance under complex driving conditions.

The main raw materials include cathode materials such as ternary materials, lithium iron phosphate, high-nickel materials and lithium-rich manganese-based materials; 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 casings, insulation materials and thermal management materials. The upstream suppliers include lithium resource companies, cathode and anode material manufacturers, electrolyte suppliers, solid electrolyte material suppliers, separator companies and battery equipment

manufacturers. Downstream customers are mainly electric vehicle OEMs, EV battery pack manufacturers, vehicle platform integrators and automotive battery system suppliers.

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

The Electric Vehicle Hybrid Solid-Liquid Battery market is developing along with the continuous upgrade of electric vehicle power battery technology. As EV manufacturers compete on driving range, charging speed, safety performance and vehicle platform efficiency, demand for batteries with higher energy density and stronger thermal stability is increasing. This type of battery is positioned as an important upgrade route for automotive traction batteries, especially for medium- and high-end electric vehicles that require better range, safety and performance balance.

In terms of technology trends, the market is moving toward lower liquid electrolyte content, higher solid electrolyte compatibility, more stable solid-liquid interfaces and improved fast-charging capability. Material systems are becoming more diversified, including high-nickel cathode with silicon-carbon anode, lithium iron phosphate with composite solid electrolyte, and lithium metal anode with hybrid electrolyte design. At the manufacturing level, battery companies are improving coating, lamination, electrolyte infiltration, interface modification, formation, testing and module-pack integration processes to meet automotive-grade consistency, safety and reliability requirements.

From a regional perspective, China is one of the most active markets due to its large electric vehicle production base, strong battery supply chain, fast product iteration by domestic automakers and increasing demand for high-performance EV batteries. Japan and South Korea have advantages in battery materials, precision manufacturing and vehicle-grade quality control. Europe and North America are also accelerating development through EV localization strategies, battery supply chain investment and cooperation between automakers and advanced battery technology companies.

The main growth drivers include rising EV production, longer-range vehicle demand, stricter battery safety requirements, high-voltage fast-charging platform development, and increasing competition among automakers. Consumers are paying more attention to range anxiety, charging efficiency, winter performance and battery safety, which pushes OEMs to adopt higher-performance battery systems. In addition, progress in silicon-carbon anodes, high-nickel cathodes, composite solid electrolytes, thermal

management systems and battery manufacturing equipment supports commercialization. However, the industry 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 Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid Battery market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid 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

Electric Vehicle Hybrid Solid-Liquid 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 Hybrid Solid-Liquid Battery

Sulfide-based Hybrid Solid-Liquid Battery

Polymer-based Hybrid Solid-Liquid Battery

Others

Market segment by Anode Material System

Graphite Anode Hybrid Solid-Liquid Battery

Silicon-Carbon Anode Hybrid Solid-Liquid Battery

Lithium Metal Anode Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid Battery product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid 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 Electric Vehicle Hybrid Solid-Liquid Battery.

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

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