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Global Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs market size was valued at US$ 166150 million in 2025 and is forecast to a readjusted size of US$ 538469 million by 2032 with a CAGR of 16.4% during review period.

Battery Pack Modules (BPCs) for EVs consist of multiple battery cells connected in series or parallel, along with end plates, side plates, busbars, sampling harnesses, insulation components, mounting structures, thermally conductive materials, and temperature/voltage acquisition components. Their primary function is to integrate individual battery cells into standardized units with specific voltage, capacity, and mechanical strength. Battery modules not only provide electrical connection and structural fixation but also influence the battery system's safety, thermal management efficiency, ease of maintenance, manufacturing consistency, and space utilization. Global shipments are projected to reach 1495.1 GWh in 2025, with approximately 1,187 GWh installed in vehicles.

The global new energy vehicle industry continues to evolve towards higher range, higher safety, higher integration, and platformization. With the growth in pure electric vehicle sales, rapid iteration of vehicle platforms, and continuous improvement in battery system integration, the battery module market is facing a new stage of product structure upgrades, manufacturing process optimization, and deeper supply chain collaboration.

From a market demand perspective, electric vehicles are placing higher demands on range, fast charging capabilities, safety and reliability, low-temperature performance,

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and overall vehicle cost, driving continuous optimization of battery modules in terms of structural design, thermal management, connection methods, assembly efficiency, and safety protection. Traditional modular solutions, characterized by convenient maintenance, high standardization, and strong manufacturing flexibility, are still widely used in various vehicle platforms. Meanwhile, the development of highly integrated solutions such as CTP, CTC, blade batteries, and large cylindrical battery packs is reshaping the application boundaries and technological routes of battery modules.

From a technological trend perspective, battery modules are evolving towards lightweight, high strength, high space utilization, and high safety. The importance of supporting components such as end plates, side plates, busbars, sampling harnesses, connecting pieces, insulation components, fixing components, thermally conductive materials, and thermal insulation materials continues to increase. In terms of thermal management, liquid cooling plates, thermally conductive adhesives, phase change materials, thermal insulation pads, and thermal runaway protection structures have become key areas for companies to improve battery safety and performance stability. With the increasing demand for high-voltage fast charging and high-rate discharging, the reliability of internal electrical connections, temperature consistency, and structural stability will become crucial indicators of product competitiveness.

From an industry chain perspective, the electric vehicle battery module market is highly correlated with cell manufacturing, battery pack integration, BMS, thermal management systems, structural components, insulation materials, automated assembly equipment, and testing equipment. Power battery companies and OEMs need to collaborate on development based on different vehicle platforms, range targets, spatial layouts, collision safety standards, fast charging requirements, and cost constraints. In the future, companies with module design capabilities, automated manufacturing capabilities, quality consistency control capabilities, and system integration experience will gain a stronger competitive advantage in the market.

From a competitive landscape perspective, leading power battery companies hold a strong market position due to their advantages in cell supply, module design, battery pack integration, and customer resources; some specialized module manufacturers, structural component suppliers, and system integrators are also forming differentiated competition in niche markets. As OEMs strengthen their self-developed battery systems, the battery module supply chain will exhibit a development pattern of "battery manufacturers leading, OEMs deeply involved, and component suppliers providing collaborative support." Future market competition will no longer be limited to price, but

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will focus more on safety verification, manufacturing yield, structural integration, thermal management efficiency, supply stability, and lifecycle value.

This report is a detailed and comprehensive analysis for global Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs market size and forecasts, in consumption value ($ Million), sales quantity (GWh), and average selling prices (US$/KWh), 2021-2032

Global Battery Pack Modules Market for EVs market size and forecasts by region and country, in consumption value ($ Million), sales quantity (GWh), and average selling prices (US$/KWh), 2021-2032

Global Battery Pack Modules Market for EVs market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (GWh), and average selling prices (US$/KWh), 2021-2032

Global Battery Pack Modules Market for EVs market shares of main players, shipments in revenue ($ Million), sales quantity (GWh), 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 Battery Pack Modules Market for EVs

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Battery Pack Modules Market for EVs 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, BYD, LG Energy Solution, Guoxuan High-tech, Samsung SDI, SK On, CALB Group, EVE Energy, Sunwoda, Farasis Energy, etc.

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

Market Segmentation

Battery Pack Modules Market for EVs 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

LFP Battery

NCx Batteries

Others

Market segment by Form

Cylindrical Battery

Primitive Battery

Pouch Battery

Market segment by Charge Rate

2C Fast Charging Battery

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4C Fast Charging Battery

5C+ Ultra-fast Charging Battery

Market segment by Application

Passenger Car

Commercial Vehicles

Major players covered

CATL

BYD

LG Energy Solution

Guoxuan High-tech

Samsung SDI

SK On

CALB Group

EVE Energy

Sunwoda

Farasis Energy

SVOLT Energy Technology

REPT BATTERO Energy

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Tianjin EV Energies

Do-Fluoride New Materials

Inpai Battery

Cornex New Energy

Panasonic

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 Battery Pack Modules Market for EVs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Pack Modules Market for EVs, with price, sales quantity, revenue, and global market share of Battery Pack Modules Market for EVs from 2021 to 2026.

Chapter 3, the Battery Pack Modules Market for EVs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Pack Modules Market for EVs breakdown data are shown at the

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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 Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs.

Chapter 14 and 15, to describe Battery Pack Modules Market for EVs sales channel, distributors, customers, research findings and conclusion.

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