

Global Lithium-ion Polymer High-Voltage (LiHv) Battery Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Lithium-ion Polymer High-Voltage (LiHv) Battery market size was valued at US\$ 3816 million in 2024 and is forecast to a readjusted size of USD 5625 million by 2031 with a CAGR of 5.8% during review period.

Lithium-ion polymer high-voltage (LiHv) batteries are a type of rechargeable battery that is commonly used in applications that require high power and high energy density. LiHv batteries are an advanced version of lithium-ion polymer (LiPo) batteries, offering higher voltage levels and increased performance.

The global lithium-ion polymer high-voltage (LiHv) battery market refers to the market for high-voltage lithium-ion polymer batteries used in various applications, such as electric vehicles (EVs), hybrid electric vehicles (HEVs), energy storage systems (ESS), and more. LiHv batteries are known for their high energy density, fast charging capabilities, and longer cycle life compared to traditional lithium-ion batteries. Here are some key insights into the global LiHv battery market:

Electric Vehicles (EVs): The adoption of electric vehicles is one of the primary drivers of the LiHv battery market. LiHv batteries offer higher energy density, which allows for longer driving ranges and improved vehicle performance. As governments and consumers push for a shift towards electric mobility to reduce carbon emissions and dependence on fossil fuels, the demand for LiHv batteries in the EV segment continues to rise.

Hybrid Electric Vehicles (HEVs): HEVs combine an internal combustion engine with an

electric motor and batteries. LiHv batteries are commonly used in HEVs due to their higher energy storage capacity and power output. These batteries help optimize fuel efficiency by storing and using energy during regenerative braking and assisting the internal combustion engine during acceleration.

Energy Storage Systems (ESS): Energy storage systems play a crucial role in renewable energy integration, grid stabilization, and load balancing. LiHv batteries are increasingly being used in large-scale ESS installations to store excess energy from renewable sources, such as solar and wind, for later use. They help address the intermittent nature of renewable energy generation and provide a reliable source of electricity during peak demand or when renewable sources are unavailable.

Advantages over Traditional Lithium-ion Batteries: LiHv batteries offer several advantages over traditional lithium-ion batteries, including higher energy densities, improved safety, and faster charging capabilities. The higher energy density allows for increased storage capacity within a smaller and lighter battery pack, making LiHv batteries ideal for applications where space and weight are a concern. Additionally, LiHv batteries can be charged at a faster rate, reducing charging time and enhancing user convenience.

Market Players: The global LiHv battery market is highly competitive, with several key players in the industry. Prominent companies involved in LiHv battery manufacturing and research and development include Panasonic Corporation, LG Chem Ltd., Samsung SDI Co., Ltd., Contemporary Amperex Technology Co. Limited (CATL), SK Innovation Co., Ltd., BYD Company Limited, Toshiba Corporation, Enerdel Inc., GS Yuasa Corporation, and Hitachi Chemical Co., Ltd., among others. These companies are continually investing in R&D activities to develop advanced LiHv battery technologies and expand their product portfolios.

Technological Advancements: The LiHv battery market is witnessing continuous technological advancements aimed at enhancing battery performance, efficiency, and safety. Research efforts focus on improving electrode materials, optimizing cell design, and developing new electrolyte formulations. Advancements in battery management systems and charging infrastructure also contribute to the growth of the LiHv battery market by addressing consumer concerns regarding range anxiety and charging accessibility.

Regional Trends: The adoption of LiHv batteries varies across different regions. North America, Europe, and Asia-Pacific are the leading markets for LiHv batteries, with key

countries such as the United States, China, Japan, Germany, and South Korea being major contributors. Stringent emission regulations, government incentives, and increasing investments in EV charging infrastructure are driving market growth in these regions. Emerging economies in Latin America, the Middle East, and Africa are also witnessing a gradual increase in LiHv battery adoption as governments promote cleaner energy alternatives and sustainable transportation solutions.

The global LiHv battery market is expected to witness robust growth driven by the increasing demand for electric vehicles, energy storage systems, and the ongoing efforts to improve battery technology. Advancements in LiHv batteries will continue to revolutionize various industries, enabling a cleaner and more sustainable future.

This report is a detailed and comprehensive analysis for global Lithium-ion Polymer High-Voltage (LiHv) 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 Lithium-ion Polymer High-Voltage (LiHv) Battery market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium-ion Polymer High-Voltage (LiHv) Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium-ion Polymer High-Voltage (LiHv) Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium-ion Polymer High-Voltage (LiHv) Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

Global Lithium-ion Polymer High-Voltage (LiHv) Battery Market 2025 by Manufacturers, Regions, Type and Applica...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Lithium-ion Polymer High-Voltage (LiHv) 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 Lithium-ion Polymer High-Voltage (LiHv) 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 Panasonic Corporation, LG Chem Ltd, Samsung SDI Co., Ltd, CATL, SK Innovation Co., Ltd., BYD Company Limited, Toshiba Corporation, Enerdel Inc., GS Yuasa Corporation, Hitachi Chemical Co., Ltd, etc.

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

Market Segmentation

Lithium-ion Polymer High-Voltage (LiHv) Battery market is split by Type and by Application. For the period 2020-2031, 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

High Power (LiHv) Battery

Normal Power (LiHv) Battery

Others

Market segment by Application

Motor Vehicles

Drones

Consumer Electronics

Others

Major players covered

Panasonic Corporation

LG Chem Ltd

Samsung SDI Co., Ltd

CATL

SK Innovation Co., Ltd.

BYD Company Limited

Toshiba Corporation

Enerdel Inc.

GS Yuasa Corporation

Hitachi Chemical Co., Ltd

Grepow

MaxAmps

Turnigy Power Systems

Gens ACE

Tenpower

GEPRC

Tattu

Onbo Power

Vant Battery

Shenzhen Yowoo Electronic Technology Co.,Ltd

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 Lithium-ion Polymer High-Voltage (LiHv) Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium-ion Polymer High-Voltage (LiHv) Battery, with price, sales quantity, revenue, and global market share of Lithium-ion Polymer High-Voltage (LiHv) Battery from 2020 to 2025.

Chapter 3, the Lithium-ion Polymer High-Voltage (LiHv) Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium-ion Polymer High-Voltage (LiHv) Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Lithium-ion Polymer High-Voltage (LiHv) Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Lithium-ion Polymer High-Voltage (LiHv) Battery.

Chapter 14 and 15, to describe Lithium-ion Polymer High-Voltage (LiHv) Battery sales channel, distributors, customers, research findings and conclusion.

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