

Global Lithium Solid-State Battery Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Lithium Solid-State Battery market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Chemical energy storage, including lead acid batteries, nickel system batteries, and lithium ion batteries (LiBs), is considered to be the most promising energy storage technology for industrialization. Among these, LiBs have many advantages such as light weight, high energy density, high power density, and long life, and they are overwhelmingly preferred by designers for use in portable electronic devices such as cell phones and laptops. However, overcharging or short-circuiting can lead to high temperature and result in fire or explosion due to the presence of flammable organic electrolytes. Fires and explosions of LiBs have been reported throughout the world. The developments of electric vehicles (EVs) and large-scale energy storage devices for new kinds of power stations greatly expand the market for LiBs, meanwhile, stricter safety requirements apply to LiBs. Since large numbers of LiBs are packed together in EVs or power stations, fire or explosion in an LiB could be disastrous. Safety has become the main obstacle for the wide application of LiBs. To meet this issue, Lithium Solid-State Battery have entered the field. A solid state battery is composed mainly of cathode, anode, and solid electrolyte, as developed during the latter half of the 20th century. Lithium Solid-State Battery have a simpler structure than the traditional LiBs, and the simplified structure with a solid electrolyte enables higher energy density. Solid electrolytes not only conduct Li+ ions but also serve as the separator, as shown in Figure below. In Lithium Solid-State Battery, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which dramatically simplifies the assembly process. The operational principle of Lithium Solid-State Battery is no different from the



traditional LiBs. In the charge process, lithium ions deintercalate from the cathode material and transport to the anode through the electrolyte, while electrons drift to the anode by the external circuit. Lithium ions combine with electrons to form more complete lithium atoms. The discharge process is just the reverse.

Global Lithium Solid-State Battery key players include BMW, Hyundai, Dyson, Apple, CATL, etc. China, US, Japan and EU is the largest market, each with a share about 20%, followed by South Korea, with a share about 15 percent.

The Global Info Research report includes an overview of the development of the Lithium Solid-State Battery industry chain, the market status of Consumer Electronics (Polymer-Based Lithium Solid-State Battery, Lithium Solid-State Battery with Inorganic Solid Electrolytes), Electric Vehicle (Polymer-Based Lithium Solid-State Battery, Lithium Solid-State Battery with Inorganic Solid Electrolytes), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Lithium Solid-State Battery.

Regionally, the report analyzes the Lithium Solid-State Battery markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Lithium Solid-State Battery market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Lithium Solid-State Battery market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Lithium Solid-State Battery industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Wh), revenue generated, and market share of different by Type (e.g., Polymer-Based Lithium Solid-State Battery, Lithium Solid-State Battery with Inorganic Solid Electrolytes).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and



market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Lithium Solid-State Battery market.

Regional Analysis: The report involves examining the Lithium Solid-State Battery market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Lithium Solid-State Battery market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Lithium Solid-State Battery:

Company Analysis: Report covers individual Lithium Solid-State Battery manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Lithium Solid-State Battery This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Electric Vehicle).

Technology Analysis: Report covers specific technologies relevant to Lithium Solid-State Battery. It assesses the current state, advancements, and potential future developments in Lithium Solid-State Battery areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Lithium Solid-State Battery market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation



Lithium Solid-State Battery market is split by Type and by Application. For the period sts

2019-2030, the growth among segments provides accurate calculations and forecast for consumption value by Type, and by Application in terms of volume and value.		
Market segr	ment by Type	
Poly	mer-Based Lithium Solid-State Battery	
Lithi	um Solid-State Battery with Inorganic Solid Electrolytes	
Market segment by Application		
Cons	sumer Electronics	
Elec	tric Vehicle	
Aero	ospace	
Othe	ers	
Major players covered		
BMV	V	
Hyui	ndai	
Dyso	on	
Appl	e	
CAT	'L	
Bollo	or?	

Panasonic

Toyota



	Jiawei	
	Bosch	
	Quantum Scape	
	Ilika	
	Excellatron Solid State	
	Cymbet	
	Solid Power	
	Mitsui Kinzoku	
	Samsung	
	ProLogium	
	Front Edge Technology	
	Qing Tao Energy Development	
Market agament by region, regional analysis savers		
Market	ket 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 Solid-State Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium Solid-State Battery, with price, sales, revenue and global market share of Lithium Solid-State Battery from 2019 to 2024.

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

Chapter 4, the Lithium Solid-State Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023.and Lithium Solid-State Battery market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Solid-State Battery.

Chapter 14 and 15, to describe Lithium Solid-State Battery sales channel, distributors, customers, research findings and conclusion.



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