

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Lithium Solid-State Battery Market 2018, Forecast to 2023

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Abstracts

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.

SCOPE OF THE REPORT:

This report focuses on the Lithium Solid-State Battery in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. Although Lithium Solid-State Battery based on inorganic solid electrolytes have clearly demonstrated their great possibilities for electric vehicles and large-scale energy storage systems, further development is still required to improve their energy density, rate capability, and cycling stability, while ensuring excellent safety. Actually, they are still far from being commercialized for industrial applications, which require systematical studies and will be a complicated process.

Making Lithium Solid-State Battery usable outside the laboratory involves multiple

factors such as solid electrolytes, electrodes, interface properties, and construction design. The high cost and very small production scale of solid state electrolytes with high ionic conductivity hinder the application of Lithium Solid-State Battery. Meanwhile, Lithium Solid-State Battery still suffer from inferior power density and poor cycle life, due to the high transfer resistance of lithium ions between the electrodes and solid electrolytes. Thus, at this stage, the direction for research exploring Lithium Solid-State Battery for commercial applications is to develop new cathodes based on the conversion reaction mechanism with low or even zero strain and energy levels well matched with the electrolytes. All of these together are expected to yield new material systems with high capacity. In addition, the use of lithium metal in anodes will be another thrust of Lithium Solid-State Battery development. Another is the design of novel SEs with high lithium-ion conductivity at room temperature and wide electrochemical window. Meanwhile, future SEs should show excellent chemical stability in the presence of metallic lithium. Also, new methods should be proposed to reduce the interfacial resistance between the electrode and electrolyte. Finally, the optimal combination of different fabrication processes and equipment automation as well as device design are necessary for the realization of Lithium Solid-State Battery with high capacity, low cost, and high yield.

Currently, many countries of the world lay down R&D targets of high energy density lithium batteries. Japanese government proposed that, power battery core energy density will reach 250Wh/kg in 2020, 500Wh/kg in 2030; United States Advanced Battery Consortium proposed that it increased core energy density in 2020 from 220Wh/kg to 350Wh/kg; China State Council 'Made in China 2025' proposed that, to 2020, China power battery monomer specific energy should reach 300Wh/kg, and should reach 400Wh/kg in 2025 and 500Wh/kg in 2030.

QYResearch believes that, power battery monomer specific energy's targets of year 2020 proposed by above countries can be realized by current lithium-ion battery technologies. If they want to reach targets of higher energy density, solid-state lithium battery will be an important development direction. Currently, solid-state lithium battery exist overhigh interface impedance between solid-state electrolyte and cathode / anode material, solid-state electrolyte conductivity is relatively low, and material preparation cost is expensive etc. problems, which make solid-state lithium battery hard to become mainstream of market in 2022. However, considering market to lithium batteries' energy density and safety performance requirements' continue increasing, development prospect of solid-state lithium battery is worth expecting.

The worldwide market for Lithium Solid-State Battery is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

BMW

Hyundai

Dyson

Apple

CATL

Bolloré

Toyota

Panasonic

Jiawei

Bosch

Quantum Scape

Ilika

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

Front Edge Technology

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Polymer-Based Lithium Solid-State Battery

Lithium Solid-State Battery with Inorganic Solid Electrolytes

Market Segment by Applications, can be divided into

Consumer Electronics

Electric Vehicle

Aerospace

Others

There are 15 Chapters to deeply display the global Lithium Solid-State Battery market.

Chapter 1, to describe Lithium Solid-State Battery Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Lithium Solid-State Battery, with sales, revenue, and price of Lithium Solid-State Battery, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Lithium Solid-State Battery, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Lithium Solid-State Battery market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Lithium Solid-State Battery sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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