

2018-2023 Global Lithium Solid-State Battery Consumption Market Report

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Abstracts

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In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Lithium Solid-State Battery market for 2018-2023.

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.

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.

Over the next five years, LPI(LP Information) projects that Lithium Solid-State Battery will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report presents a comprehensive overview, market shares, and growth

opportunities of Lithium Solid-State Battery market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Polymer-Based Lithium Solid-State Battery

Lithium Solid-State Battery with Inorganic Solid Electrolytes

Segmentation by application:

Consumer Electronics

Electric Vehicle

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding

detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

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

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

RESEARCH OBJECTIVES

To study and analyze the global Lithium Solid-State Battery consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Lithium Solid-State Battery market by identifying its various subsegments.

Focuses on the key global Lithium Solid-State Battery manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Lithium Solid-State Battery with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Lithium Solid-State Battery submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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