

# 2018-2023 Global Solid State Batteries Consumption Market Report

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## Abstracts

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Solid State Batteries market for 2018-2023. 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, solid state batteries 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. Solid state batteries 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<sup>+</sup> ions but also serve as the separator, as shown in Figure below. In solid state batteries, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which dramatically simplifies the assembly process. The operational principle of solid state batteries 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 Solid State Batteries 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 Solid State Batteries 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 Solid State Batteries. Meanwhile, Solid State Batteries 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 Solid State Batteries 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 Solid State Batteries 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 Solid State Batteries with high capacity, low cost, and high yield.

In summary, scientific and technical research on Solid State Batteries is progressing gradually. The current achievements indicate that Solid State Batteries with high energy density are promising candidates for large-scale energy storage and even electric vehicle applications

Over the next five years, LPI(LP Information) projects that Solid State Batteries 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 Solid State Batteries 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 Solid State Batteries

Solid State Batteries with Inorganic Solid Electrolytes

Segmentation by application:

Home Consumers

Health Clubs / Gym

Hotel Gym

Medical Centers / Hospitals

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

Iluka

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

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 Solid State Batteries 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 Solid State Batteries market by identifying its various subsegments.

Focuses on the key global Solid State Batteries 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 Solid State Batteries 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 Solid State Batteries 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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