

# Global Solid State Batteries Market Research 2011-2022

<https://marketpublishers.com/r/G9E4695C230EN.html>

Date: June 2017

Pages: 85

Price: US\$ 2,360.00 (Single User License)

ID: G9E4695C230EN

## Abstracts

### Summary

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.

The Global Solid State Batteries market is estimated to reach xxx Million USD in 2017. In the report, HeyReport says Consumer Electronics dominates the largest Application share in 2017. The objective of report is to define, segment, and project the market on the basis of type, application, and region, and to describe the content about the factors influencing market dynamics, policy, economic, technology and market entry etc.

Based on products type, the report describes major products type share of regional market. Products mentioned as follows:

### By Type

Thin-Film Type

## Portable Battery

Based on region, the report describes major regions market by products and application. Regions mentioned as follows:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

Based on Application, the report describes major Application share of regional market. Application mentioned as follows:

Consumer Electronics

Electric Vehicle

Medical Devices

Aerospace

Leading vendors in the market are included based on profile, business performance etc. Vendors mentioned as follows:

BMW

Hyundai

Dyson

Apple

CATL

Bolloré

Toyota

Panasonic

Jiawei

Bosch

Quantum Scape

Ilika

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

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