

Global Battery Design and Manufacturing Software Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Battery Design and Manufacturing Software market size is predicted to grow from US\$ 1436 million in 2025 to US\$ 2730 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

Battery Design and Manufacturing Software is a software system used for the development of battery materials, cells, modules, battery packs, and manufacturing processes. It covers electrochemical modeling, thermal management simulation, structural safety analysis, BMS model verification, production line planning, manufacturing execution, quality traceability, yield optimization, and data analysis. Its core value lies in helping battery companies shorten R&D cycles, optimize cell performance, improve manufacturing yield, reduce trial-and-error costs, and support the large-scale manufacturing of products such as power batteries, energy storage batteries, consumer electronics batteries, and solid-state batteries.

The increasing adoption of electric vehicles is driving demand for advanced battery technologies. Battery design and manufacturing software play a crucial role in optimizing the performance and efficiency of batteries used in EVs. Growing interest in renewable energy and grid stability has led to the expansion of energy storage systems. Software solutions for battery design and manufacturing are essential for optimizing energy storage and ensuring reliability. Battery manufacturers are increasingly focused on improving the efficiency and performance of batteries. Software solutions that enable precise design, simulation, and manufacturing processes are in demand.

LPI (LP Information)' newest research report, the "Battery Design and Manufacturing Software Industry Forecast" looks at past sales and reviews total world Battery Design and Manufacturing Software sales in 2025, providing a comprehensive analysis by

region and market sector of projected Battery Design and Manufacturing Software sales for 2026 through 2032. With Battery Design and Manufacturing Software sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Design and Manufacturing Software industry.

This Insight Report provides a comprehensive analysis of the global Battery Design and Manufacturing Software landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Battery Design and Manufacturing Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Battery Design and Manufacturing Software market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Design and Manufacturing Software and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Design and Manufacturing Software.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Design and Manufacturing Software market by product type, application, key players and key regions and countries.

Segmentation by Type:

Cloud

On-premise

Segmentation by Stage:

Battery Material Design Software

Battery Cell Design Software

Battery Module & Pack Design Software

Battery Manufacturing Execution Software

Others

Segmentation by Function:

Lithium-ion Battery Software

Solid-state Battery Software

Sodium-ion Battery Software

Fuel Cell / Flow Battery Software

Others

Segmentation by Application:

Automobile

Electronics

Energy

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

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Siemens

Dassault Systèmes

Ansys

COMSOL

MathWorks

Altair

AVL

ESI Group

Hexagon

Synopsys

dSPACE

Gamma Technologies

Honeywell

Rockwell Automation

GE Vernova

CATL

BYD

Lead Intelligent

Panasonic Energy

Murata Manufacturing

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