

Global Lithium-ion Battery Testing and Certification Services Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Lithium-ion Battery Testing and Certification Services market size is predicted to grow from US\$ 1260 million in 2025 to US\$ 1736 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

Lithium-ion battery testing and certification services primarily include testing and certification services for lithium-ion batteries.

Testing typically refers to determining whether a product possesses certain characteristics at the prototype stage, including performance, reliability, lifespan, and composition, such as the heavy metal content of a food product. Product certification or qualification is the process of proving that a product has passed performance and quality assurance testing and meets the qualification standards stipulated in contracts, regulations, or specifications. Most product certification bodies are certified or comply with ISO/IEC 17065 Conformity Assessment Requirements for Certification Bodies of Products, Processes and Services, an international standard designed to ensure the competence of organizations performing product, process and service certifications. With the increasing use of lithium-ion batteries in products, finished product manufacturers and consumers expect reliable assurances regarding battery performance, reliability, and safety.

Lithium-ion battery testing and certification services are third-party testing and certification services focused on battery safety, performance, and compliance. These services cover mechanical testing (explosion, needle penetration), environmental testing (high and low temperatures, salt spray), electrical testing (overcharge, short circuit), and electrical performance testing (capacity, cycle life), ensuring batteries meet

international standards (such as IEC 62133, UL 2054), domestic mandatory standards (such as GB 31241), and target market certifications (such as CE, PSE). Industry gross margins can reach 25%-45%.

Market drivers primarily include:

Technological iteration and performance upgrade demands: Lithium-ion battery energy density is breaking through to 400Wh/kg, and charging speeds are increasing to 6C rates. Traditional testing equipment can no longer meet the high-precision requirements. Leading companies are shortening testing cycles by 30% through integrated 'cell-system' testing solutions, driving up industry gross margins. For example, CATL uses an AI-driven testing system to quantitatively assess battery pack thermal runaway risk, reducing after-sales failure rates by 50%.

Policy Mandate and Standard Upgrades: Global carbon neutrality goals are accelerating the penetration of new energy vehicles. China's target of 25% new energy vehicle sales by 2025 is forcing battery companies to adopt high-safety testing standards. Meanwhile, the EU's Battery Regulation requires a 70% battery recycling rate by 2030, and testing equipment must support full lifecycle data traceability, driving the industry towards intelligent and green transformation.

Expanded Application Scenarios and Supply Chain Collaboration: Lithium-ion battery applications are expanding from new energy vehicles to low-altitude economies (such as electric aircraft) and energy storage systems (such as the Zhejiang in-situ solid-state energy storage power station), placing higher demands on battery cycle life (>8000 cycles) and charge/discharge efficiency (>95%). The upstream and downstream of the supply chain are accelerating technology implementation and market penetration through joint R&D (such as sharing testing process databases) and standardization (such as the CTC interface specification). For example, BYD collaborated with NIO to develop a semi-solid-state battery testing system that supports both ultra-fast charging and long battery life requirements.

LPI (LP Information)' newest research report, the 'Lithium-ion Battery Testing and Certification Services Industry Forecast' looks at past sales and reviews total world Lithium-ion Battery Testing and Certification Services sales in 2025, providing a comprehensive analysis by region and market sector of projected Lithium-ion Battery Testing and Certification Services sales for 2026 through 2032. With Lithium-ion Battery Testing and Certification Services sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Lithium-ion

Battery Testing and Certification Services industry.

This Insight Report provides a comprehensive analysis of the global Lithium-ion Battery Testing and Certification Services 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 Lithium-ion Battery Testing and Certification Services portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Lithium-ion Battery Testing and Certification Services market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lithium-ion Battery Testing and Certification Services 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 Lithium-ion Battery Testing and Certification Services.

This report presents a comprehensive overview, market shares, and growth opportunities of Lithium-ion Battery Testing and Certification Services market by product type, application, key players and key regions and countries.

Segmentation by Type:

Battery Testing

Battery Certification

Segmentation by Technology:

High-Precision Testing Systems

High-Speed ??Testing Systems

Intelligent Testing Systems

Segmentation by Functional Category:

R&D Testing Systems

Production Testing Systems

Certification Testing Systems

Segmentation by Application:

Power Battery

Energy Storage Battery

Consumer Battery

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.

SGS

Eurofins Scientific

Bureau Veritas

Intertek

TUV SUD

Dekra

UL Solutions

Applus+

T?V Rheinland

DNV GL

ALS Global

TUV NORD

Element Materials Technology

VDE

CGC

CSA

BV

GRGT

Huace Testing

China Inspection Group

Lepont

CVC

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