

# **Global Battery Testing, Inspection, and Certification Market Size study, by Standard and Certification Type (Safety Testing, EMC Testing, Performance Testing, Others), by Battery Type (Lithium-ion, Lead-Acid, Nickel-Metal Hydride, Other Battery Types), by Service Type (Testing, Inspection, Certification), by Application (Electric Vehicles (EVs), Internal Combustion Engine (ICE) Vehicles, Consumer Electronics, Industrial Equipment, Medical Devices, Other Applications), and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Battery Testing, Inspection, and Certification Market is valued approximately at USD 12.46 Billion in 2023 and is anticipated to grow with a healthy growth rate of more than 19.6% over the forecast period 2024-2032. Battery testing, inspection, and certification is a critical process that ensures the safety, performance, and reliability of batteries used across various applications. This comprehensive evaluation includes rigorous testing and assessment of battery components and systems to verify compliance with industry standards and regulations. The increasing adoption of electric vehicles (EVs) and energy storage systems (ESS), stringent enforcement of safety standards, the thriving portable electronics industry, and rapid advances in battery technology are some of the primary factors propelling the market growth globally. The growing investment in clean energy initiatives, automation of testing processes using digital technologies, and the necessity for rigorous testing in electric aircraft and medical devices present significant growth opportunities. For instance, the International

Energy Agency (IEA) reported that global electric vehicle sales reached 13.9 million units in 2023, marking a significant 35% increase from the previous year. Such robust growth in the EV market underscores the need for thorough testing and certification to ensure battery performance and safety. However, the market faces challenges due to the high initial capital investment required to establish advanced testing facilities and procure sophisticated equipment. For example, setting up a battery testing laboratory with necessary equipment like battery cyclers and safety testing tools can cost millions of dollars, creating barriers for smaller TIC service providers. Despite these challenges, the rising demand for EVs and ESS, driven by technological advancements and environmental policies, continues to fuel the market's expansion. The key regions considered for the global Battery Testing, Inspection, and Certification Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific is a dominating region in the Battery Testing, Inspection, and Certification Market in terms of revenue. The market growth in the region is being attributed to factors including presence of well-established battery manufacturers like Contemporary Amperex Technology Co., Ltd. (CATL) and BYD Company Ltd. Furthermore, government initiatives promoting electric vehicles further accelerate the market growth in this region. Whereas, the market in North America is anticipated to grow at the fastest rate over the forecast period fueled by stringent regulatory frameworks and increasing investments in battery technologies.

Major market player included in this report are:

T?V NORD GROUP (Germany)  
Bureau Veritas (France)  
DEKRA (Germany)  
DNV GL (Norway)  
Eurofins Scientific (Luxembourg)  
T?V Rheinland (Germany)  
T?V S?D (Germany)  
NTS (National Technical Systems, Inc.)  
Element Materials Technology  
Applus+  
MTS Systems Corporation  
FAI Materials Testing Laboratory, Inc.  
UL LLC (US)  
SGS SA (Switzerland)  
Intertek Group plc (UK)

The detailed segments and sub-segment of the market are explained below:

**By Standard and Certification Type:**

- Safety Testing
- EMC Testing
- Performance Testing
- Others

**By Battery Type:**

- Lithium-ion
- Lead-Acid
- Nickel-Metal Hydride
- Other Battery Types

**By Service Type:**

- Testing
- Inspection
- Certification

**By Application:**

- Electric Vehicles (EVs)
- Internal Combustion Engine (ICE) Vehicles
- Consumer Electronics
- Industrial Equipment
- Medical Devices
- Other Applications

**By Region:**

- North America
  - o U.S.
  - o Canada
- Europe
  - o UK
  - o Germany
  - o France
  - o Spain
  - o Italy
  - o ROE
- Asia Pacific
  - o China
  - o India
  - o Japan
  - o Australia
  - o South Korea
  - o RoAPAC

- Latin America
  - o Brazil
  - o Mexico
  - o RoLA
- Middle East & Africa
  - o Saudi Arabia
  - o South Africa
  - o RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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