India Battery Testing Equipment Market Forecast 2025-2032

Market Report | 2026-01-02 | 134 pages | Inkwood Research

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Report description:

The India battery testing equipment market size is valued at $29.08 million as of 2025 and is expected to reach $47.14 million as of 2032, progressing with a CAGR of 7.15% during the forecasted years, 2025-2032.

India's battery testing equipment market is experiencing robust growth driven by the government's Production Linked Incentive (PLI) scheme for Advanced Chemistry Cell battery storage, which allocates ?18,100 crore to establish gigascale manufacturing facilities. The National Electric Mobility Mission and PM E-Drive scheme are accelerating electric vehicle adoption, creating substantial demand for quality assurance infrastructure.

Moreover, India's mandate to co-locate energy storage systems with solar projects-requiring 10% storage capacity equivalent to two-hour duration-is driving testing requirements across renewable energy installations. Accordingly, the government expects approximately 14 GW/28 GWh of storage to be installed by 2030. Additionally, domestic battery R&D investments are expanding rapidly, with companies like Reliance Industries and Ola Electric establishing in-house testing laboratories.

However, challenges persist. Import dependence for high-end equipment remains significant, while tariffs and duties increase acquisition costs. Furthermore, the absence of uniform testing standards across states creates compliance complexities for manufacturers. Despite these obstacles, India's focus on localizing battery production under the Make in India initiative positions the testing equipment market for sustained expansion through 2032.

The India battery testing equipment market is segmented into product type, application, and end-user. The product type segment is further categorized into portable battery testing equipment and stationary battery testing equipment.

India's stationary battery testing equipment segment is witnessing accelerated adoption across automotive gigafactories and certified testing laboratories. These sophisticated systems enable comprehensive evaluation of battery cells, modules, and packs for electric vehicles and energy storage applications. Stationary equipment offers superior precision, higher current handling capabilities, and advanced temperature control features essential for R&D and quality certification.

Companies establishing manufacturing facilities under the PLI scheme require stationary testing infrastructure to meet the mandatory 60% domestic value addition requirement within five years. Furthermore, government-accredited testing centers operated by organizations like TUV SUD India rely exclusively on stationary systems for certification services. The segment benefits from declining lithium-ion battery costs, which have dropped 20% to $115/kWh in 2024. This cost reduction is driving higher testing volumes as manufacturers scale production.

Meanwhile, the integration of automated testing protocols and real-time data analytics enhances throughput and accuracy. Stationary systems also support emerging battery chemistries, including lithium iron phosphate (LFP) and solid-state technologies,

which require specialized testing parameters. Nevertheless, the high initial investment remains a barrier for small and medium enterprises. Stationary battery testing systems typically cost between $100,000 and $500,000, depending on specifications. Consequently, many smaller battery producers rely on third-party testing services rather than establishing in-house capabilities. However, as production volumes increase and quality requirements tighten, more companies are expected to invest in dedicated stationary testing infrastructure. The segment is also benefiting from partnerships between Indian laboratories and global equipment providers, which facilitate technology transfer and local support networks. For instance, companies are increasingly offering modular systems that allow staged capacity expansion, reducing upfront capital requirements while maintaining flexibility for future growth.

Some of the top players operating in the India battery testing equipment market include Arbin Instruments, Chauvin Arnoux (RADELCOM), Xiamen TMAX Battery Equipments Limited, TUV SUD India, etc.

Chauvin Arnoux operates in India through its authorized partner RADELCOM India, providing comprehensive electrical testing and measurement solutions to the growing battery testing market. The company specializes in advanced test and measurement instruments essential for battery evaluation, energy storage systems, and power electronics applications. Chauvin Arnoux's product range includes battery analyzers, power quality analyzers, electrical safety testers, and energy efficiency measurement devices that serve automotive manufacturers, research laboratories, and energy storage facilities.

Notably, their equipment supports compliance with international standards, including IEC and ISO requirements critical for battery certification. Through RADELCOM India's distribution network, Chauvin Arnoux delivers technical support, calibration services, and training programs to customers across multiple industrial sectors. The partnership enables local access to European-engineered testing technology while providing responsive after-sales service tailored to Indian market requirements.

COMPANY PROFILES

1. ARBIN INSTRUMENTS
2. CHAUVIN ARNOUX (RADELCOM)
3. XIAMEN TMAX BATTERY EQUIPMENTS LIMITED
4. TUV SUD INDIA
5. NEMKO INDIA
6. ITC INDIA PVT LTD

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