

New energy battery performance testing software

Why is software important for battery testing?

Software is becoming more critical to manage data seamlessly, to align with market requirements, and to ensure customer success. Battery test solutions have evolved from manual testing to automated and next-generation battery test systems.

What is the future of battery test technology?

Modern battery test systems continue to evolve, providing new capabilities to address changing technology and business needs. Key battery test technology trends include higher voltages for faster charging, wider power ranges, faster response times to emulate real-world conditions of e-mobility, and more environmental testing with broader adoption.

Why do engineers need EV battery test systems?

Engineers need to have a connected ecosystem of flexible battery test systems and software automation tools to efficiently test batteries, validate performance and scale testing. EV battery test solutions have evolved from manual testing to automated & next-generation battery test systems to address more complex test challenges.

What is a battery test setup?

An approach engineers often take is to build their own battery test setup using an electronic DC source and DC load. These types of general-purpose test equipment are found in most power electronics labs. This approach provides an opportunity to automate testing by programming the test parameters within the source and load.

How have battery test solutions evolved over time?

Battery test solutions have evolved from manual testing to automated and next-generation battery test systems. This article describes the evolution of these methodologies over time to align with the evolving test requirements. Figure 1: Battery test approaches are becoming more automated and sophisticated in capability

What is an automated battery test system?

Automated battery test systems integrate an electronic DC source and load within a single product along with advanced built-in automation tools and improved measurement capability. These test systems range from custom-engineered to commercial off-the-shelf (COTS) options.

NEWARE's battery testing solutions can perform comprehensive testing on Coin, Cylindrical, and Pouch batteries, including Cycle Life Testing and Pulse Simulation, to ensure their reliability. [Read More](#)

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Gavin White, Co-Founder and CEO of About:Energy said: "We are delighted to open our new battery testing facility, which will allow us to scale our battery testing capabilities and drive innovation across multiple industries. We want to build a new standard for the UK's battery technology landscape, and this new facility is part of a long-term, multi-million-pound ...

About:Energy, a world-leading innovator in battery development software, is excited to announce the opening of its new headquarters featuring a state-of-the-art test facility in Southwark, just a few hundred metres from the Thames and the City of London.. The facility is the most centrally located battery testing location in London and serves as a central hub for ...

With the power of AI, you can model battery performance across the design space with a fraction of a traditional test plan. Using the Next Test Recommender, you can apply multiple machine learning algorithms at once to chart your ...

NEWARE provides turnkey solutions for Electric vehicle (EV) Battery, Car Battery, Cell, Module, and Pack batteries testing, offering a range of functions such as Cycle Life Testing, HPPC ...

If you're on the hunt for battery testing devices, you want something fast, reliable, and capable of delivering clear insights into your battery's performance and health. The key to optimizing battery designs and boosting ...

In recent years, with the rapid development of new energy vehicle technology, the performance of the battery thermal management system (BTMS) is crucial to ensure battery safety, life, and ...

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Solutions for Battery Development, Testing and Validation. Evaluator EOL: End-of-Line Battery Testing Systems. Measuring battery emissions during a thermal event. Our battery testing and partnership facilities around the globe include, ...

Lithium-ion batteries (LIBs) with relatively high energy density and power density are considered an important energy source for new energy vehicles (NEVs). However, LIBs are highly sensitive to temperature, which makes their thermal management challenging. Developing a high-performance battery thermal management system (BTMS) is crucial for the battery to ...

Keysight's test systems with the Scienlab Energy Storage Discover (ESD) software helps you run customized performance, function, aging, and environmental tests. ESD includes standards compliance and conformance tests (e.g., ISO, DIN EN, and SAE).

New energy battery performance testing software

The integrated comprehensive testing solution covers new energy vehicle components such as batteries, electronic controls, electric drives, and cabins. It provides real-time software ...

NEWARE not only produces excellent battery testing equipments, but also provides complete software and hardware solutions such as NEWARE AI, MES and automatic production line ...

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