

Medical Device Battery Test

- Wide Range of Test Capabilities

Konrad Technologies designs and develops systems that can test various batteries according to standards such as UL 1642 or IEC 62133. We specialize in creating flexible test solutions that support both rechargeable and primary batteries for different voltages and capacity limits. We support OCV, fixed load, pulse load, and battery impedance testing. Our team works with each client to design a custom test solution based on software-defined instrumentation.

- Flexibility and Support

Konrad Technologies designs flexible, scalable test solutions. Our battery testers are designed to accommodate new DUT types with minimal changes to fixturing and mechanical connections. For every system, Konrad goes through a validation process that involves an installation qualification, an operation qualification, and a performance qualification document. We support our clients during the audits, providing additional documentation where needed.

- Testing Capacity

Konrad Technologies systems support large batch testing. Test time and cost of test are both reduced by testing up to 100 batteries simultaneously. We design our systems to work with a battery manufacturer's packaging to facilitate rapid loading and unloading.

Project Example: Battery Qualification System

Konrad Technologies designed and developed a PXI-based data acquisition and control system for performing electrical tests on button cell batteries. It would be equally relevant to other small primary batteries.

This 100-up parallel battery tester applies constant current load levels for fixed time intervals while recording battery output voltage and current. The system applies predefined sequences of loads and measurements to all batteries in parallel, but it can turn off each cell individually after it reaches a configurable limit.

After the system was delivered, Konrad continued to work with the client and provided multiple upgrades and improvements such as updated software functionality to allow removal of individual loads after specified conditions are met.



Konrad Technologies: We Know How to Test Medical Devices!

In the medical device industry, quality assurance and regulatory compliance can take up to one third of a company's resources. Every product goes through various phases of trial and verification before it can receive the FDA approval. There is also an additional challenge of the rigorous production testing once the product has been authorized.

This is where Konrad Technologies brings the most value to our clients. We create high-quality automated test systems as a part of our clients' production process. We are involved in verification, validation, and qualification of these systems with in-depth documentation to accelerate time to market and lower the cost of test. Konrad has been involved in qualifying systems for medical device production with several companies over the last two decades. Our highly experienced staff integrates into our client's project teams to provide solutions across the entire development cycle, testing everything from board-level components to packaged products.

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