

# TERMA BATTERY CELL TESTER

COMPACT SOLUTIONS FOR HIGH-EFFICIENCY  
BATTERY TESTING



**TERMA<sup>®</sup>**  
ALLIES IN INNOVATION



**Terma Battery Cell Tester is designed to elevate your battery development, offering ultra-high performance in a surprisingly compact design. If you're looking to set new benchmarks, this tester delivers the highest energy density and supports up to 300A channels while fitting neatly into your lab space. For added flexibility, depending on testing requirements you can also choose between 12.5A and 300A channels.**

Each channel is equipped with advanced features such as Built-in Electrochemical Impedance Spectroscopy (EIS), Direct Current Internal Resistance (DCIR) measurement, self-calibration, and built-in snapshot, so you no longer need extra devices cluttering your workspace. By maximizing efficiency, you can focus on what matters most: pushing your project forward.

If top-tier testing capabilities, innovative built-in functionalities, and space-saving design are your priorities, the Terma Battery Cell Tester is your ideal solution.

### **95%**

Regenerative Efficiency. Circulate energy back into your operations during discharge and minimize air conditioning needs.

### **12.5A and 300A**

output ranges to cover all your testing needs, from small cylindrical- up to large prismatic- and pouch-cells.

### **Up to 2-3 times**

More Channels. Accommodate significantly more channels than traditional systems and boost your productivity.

### **Up to 75%**

Smaller Footprint. Preserve lab space with a battery tester setup with significantly smaller footprint compared to traditional systems.

### **Modular Flexibility**

Tailor your setup with our modular configuration. Choose from three feature levels: Basic, Standard and Premium to fit your testing needs and maintain high adaptability and cost-efficiency.

### **Parallelization and extended voltage range**

For a scalable and future-proof testing setup. Modular Configuration with parallelization capabilities enabling scalability and flexibility in testing setups.





## Key & Advanced Features

Explore our Battery Cell Tester's features to see how it can transform your battery performance and reliability.

### Operational Efficiency and Cost-Saving

- **Modular Design:** Adapts easily to changing testing needs with scalable configurations.
- **Regenerative Power Supply 95% Overall Efficiency:** Recycles energy back into the system, significantly reducing waste and operational costs.
- **Automated Dynamic Test Profiles:** Streamlines testing with customizable, pre-programmed profiles.
- **Reduced footprint:** By increasing switching speeds, we reduce the size of components and minimize the overall footprint.

### Testing Capabilities and Flexibility

- **Built-in Direct Current Internal Resistance (DCIR):** Directly measures the internal resistance of cells, essential for assessing battery health and performance. We guarantee a minimum pulse of 2msec.
- **Built-in Electrochemical Impedance Spectroscopy (EIS):** Offers Electrochemical Impedance Spectroscopy for a more detailed battery behavior analysis.
- **Built-in Snapshot:** oscilloscope like feature that continuously monitors electrical signals within the battery cells to get the information of fast events.
- **Built-In Extra IOs per Channel:** Provides additional inputs and outputs for enhanced testing flexibility.
- **Built-In Graphical User Interface (GUI):** Enables intuitive setup and monitoring of tests.

### Precision and Accuracy

- **Self-Calibration Capability:** Enables self-calibration of the voltage measurement mechanism by utilizing a precision voltage reference in the device, reducing the need for external calibration services.

### Integrated Software and Remote Access

- **Automation software:** The software is fully integrated, enabling seamless data handling and visualization.
- **Built-in Cyber-Security:** Protects system integrity and data security with advanced, integrated safeguards.
- **Built-In Remote Access Control:** Offers convenient control and monitoring from anywhere.



Operating in the aerospace, defense, and security sector, Terma supports customers and partners all over the world. With more than 1,900 committed employees globally, we develop and manufacture mission-critical products and solutions that meet rigorous customer requirements.

At Terma, we believe in the premise that creating customer value is not just about strong engineering and manufacturing skills. It is also about being able to apply these skills in the context of our customers' specific needs. Only through close collaboration and dialog can we deliver a level of partnership and integration unmatched in the industry.

Our business activities, products, and systems include: command and control systems; radar systems; self-protection systems for ships and aircraft; space technology; and advanced aerostructures for the aircraft industry.

Terma has decades of hands-on know-how in supporting and maintaining mission-critical systems in some of the world's most hostile areas. Terma Support & Services offers through-life support of all our products to maximize operational availability, enhance platform lifetime, and ensure the best possible cost of ownership.

Headquartered in Aarhus, Denmark, Terma has subsidiaries and operations across Europe, in the Middle East, in Asia Pacific as well as a wholly-owned U.S. subsidiary, Terma Inc., with offices in Washington D.C., Georgia and Texas.

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