

TERMA BATTERY CELL TESTER

COMPACT SOLUTIONS FOR HIGH-EFFICIENCY
BATTERY TESTING



TERMA[®]
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 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. Tailor your setup with our modular configuration, designed to adapt, expand, and future-proof your system architecture.

Parallelization and extended voltage range

For a future-proof testing setup 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: Lower facility and infrastructure costs

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.
- 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.

Available Models

Model	Channels	Voltage/ch (V)	Current/ch (A)
300-8	8	0 - 10	300
300-16	16	0 - 10	300
300-24	24	0 - 10	300
300-32	32	0 - 10	300
12-64	64	0 - 10	12,5
12-128	128	0 - 10	12,5
12-192	192	0 - 10	12,5
12-256	256	0 - 10	12,5
Mix-1 to 6	mix and match 300A and 12.5A versions		

Manual parallel connections of up to 8 channels increase the maximum current range of the system to either 2400 A for the 300 series or 100 A for the 12 series



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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