

RABOTTI
TORINO SINCE 1925

RABOTTI Battery Analyzer

The Rabotti Battery Analyzer is a high precision instrument designed to provide advanced, non-destructive diagnostics for energy storage systems, with a particular focus on lithium-ion batteries. Its advanced technology enables fast, reliable, and detailed evaluation of battery state of health, performance, and aging processes.

Thanks to its high sensitivity and accuracy, the Battery Analyzer operates exclusively on batteries that have already been characterized. Each battery to be tested must first undergo a detailed characterization process within Rabotti laboratories, performed by highly qualified personnel. This step is essential to ensure consistency and precision in the diagnostic results.

Compatible with batteries within a voltage range of 10 to 98 V, the Battery Analyzer represents an ideal solution for manufacturers, recycling centers, and second life applications that require accurate and repeatable analysis. The quality of the results depends directly on the quality of the initial characterization process, reflecting the specialized nature of the instrument.

Functions

Fast and non-destructive testing	Evaluations are completed within a few minutes without compromising the integrity of the battery.
Versatility	Compatible with multiple battery formats (cylindrical, pouch, prismatic) and chemistries (NCM, LFP, etc.).
Accuracy and reliability	Advanced data driven algorithms provide precise evaluation of cells and modules.
Stand alone operation	No interaction with the Battery Management System (BMS) is required, and individual modules can be tested outside the vehicle, making it particularly suitable for modules recovered from damaged vehicles.
Scalability	The system can be configured with different power levels depending on operational requirements.
Battery agnostic	No preliminary information about cell chemistry, size, or manufacturer is required.

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Tech. data

PARAMETER	VALUE	NOTE
Voltage range	10V - 98V	Covers most EV battery modules.
Supported capacity	Up to 30 Ah (single device)	Scalable up to 480 Ah.
Power supply	230V	
Test duration	5 minutes	
Regenerative efficiency	90%	

Advantages

Time and resource savings	Fast, non invasive tests significantly reduce operational costs.
Universal compatibility	Suitable for different battery technologies and formats.
High energy efficiency	Regenerative process with an efficiency of 90%.
Ease of use	No complex setup or prior battery information required.

Applications

End-of-Line Quality Control

Thanks to its stand-alone design, the system can be integrated into production lines to significantly reduce testing time, optimize space, and improve manufacturing efficiency



Degradation Assessment and Second Life evaluation

Enables accurate determination of cell state of health, helping maximize their value in second life applications such as energy storage systems or reuse in less demanding environments.



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