

ExaMight

First all-in-one solution for battery quality assurance

- ▄▄▄▄ The new reference for quality assessment of lithium-ion batteries
- ▄▄▄▄ Precise prediction of battery performance and lifetime in 1s
- ▄▄▄▄ Continuous monitoring of the incoming battery quality
- ▄▄▄▄ Tool chain for QA workflow and supplier assessment
- ▄▄▄▄ No changes in current production process required

SAFION

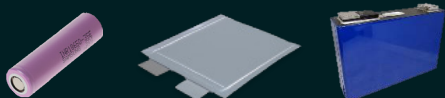
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Schedule a demo!

For all cell geometries



For all cell chemistries

LCO LMO NMC LFP NCA LTO +



SYSTEM OVERVIEW

All-in-one Software Suite

- Efficient tools & workflows for
 - Battery screening and assessment
 - In-depth battery quality analysis
 - QA, reporting & supplier management
- Customizable battery quality criteria based on your application requirements
- Flexible API for big data integration

Measurement Unit

- Fully automatic measurement of the electrochemical battery impedance
- Measurement of 32 impedance points in 1 second
- Fully scalable from low to high throughput
- Onboard-PC: 4 x USB, DisplayPort, 2x Ethernet

Also available as...

Network Solution *

Online Solution *

Contacting Unit (Cylindrical Cells)

- Semi-automatic contacting unit for fast and reproducible battery quality measurement
- Plug-and-Play integration with all ExaMight Series products
- Robust design and protection for challenging production environments

Also available for...

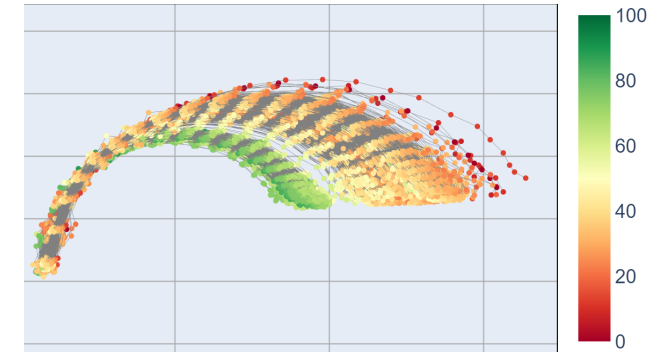
Pouch cells

Prismatic cells

Battery modules *



REAL-TIME EIS MEASUREMENT



The electrochemical impedance spectrum (EIS) can be seen as the battery's fingerprint and contains highly relevant information to forecast future capacity, lifetime and performance within your application.

Safion's Real-Time EIS method makes use of a superimposed excitation to measure up to 32 impedance points simultaneously. In this way, the measurement time is reduced from minutes to seconds, enabling a very high throughput and optimizing the method for quality assurance. Using intelligent algorithms and machine learning for feature extraction and weighting, our software evaluates each battery fully automatically and matches it with the user's individual requirements.

RECOMMENDED PRODUCT

Inspectrum | Next Generation of battery characterization



* Coming soon / in development

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