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Industry Leading Electric Vehicle Test Solutions

Battery, Fuel Cell, Electric Powertrain,
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NHR Launches Regenerative Grid Simulator

The 9510 Regenerative Grid Simulator is the next generation AC test solution for testing and





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Battery Emulation

We simplify test so you can focus on innovation.

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Testing with Battery Emulation

NH Research, Inc.'s (NHR) is an industry leader of battery test solutions. NHR's battery emulators include the [High-Voltage Battery Emulator \(9300\) Series](#) and [Medium Voltage Battery Emulator](#).





Battery Test Systems

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Battery Test Systems for R&D and Manufacturing

NH Research (NHR) is a leading manufacturer of battery test equipment and system solutions for all battery chemistries, fuel-cells, super capacitors, and energy storage systems.

NHR's battery test equipment includes the

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Industry Test Solutions

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Enabling Electrification, Your Partner in Test

NH Research (NHR) enables electrification by accelerating innovation, validation and functional test of today's technologies. Backed by over 50 years of experience in power

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Automotive & E-mobility Test Solutions

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Electric Vehicles & E-mobility Test Solutions

NH Research (NHR) provides Electric Vehicle (EV) test equipment and software for individual components and systems including EV battery modules/packs, electric powertrain, DC fast chargers and EV power electronics

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Datasheets, Guides, Application Notes
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Model 9510
Regenerative Grid Simulator 50kW - 1.2MW

Actual test solution for engineering development, compliance verification & manufacturing for all utility grid test products. Immediate applications for Distributed Energy Resources, Energy Storage Systems, Solar PV & Vehicle to Grid (V2G) test, evaluation, & certification.

Key Features & Capabilities

- Regenerative AC/DC Grid Simulator and Power Analyzer
- Optimized for PV/EV applications
- IEEE488, CAN, RS485, IEC61850
- Modular & Scalable AC Power from 100W to 1.2MW
- Dynamic V2G can act as master or parallel inverter unit
- Fast response for future, increased power demands
- AC Load option. Modules can be configured as Regenerative AC/DC, V2G Simulator or V2G AC Load
- Full featured design
- Factory tested and pre-qualified

Applications

- EV charging
- Renewable
- Energy Grid
- Energy Storage
- Photovoltaic
- Autonomous
- Power Grid
- DC Testing

Model 9430
Regenerative 4-Quadrant AC Load

Linear & Non-Linear AC Loading in General Emulation Mode with User Defined Waveforms, Power & Crest Factor Control

Key Features

- 4 Quadrant - 4 to 999W
- Single, Split or Three-Phase programmable
- 10 to 1000VAC
- 30 to 1000A
- DC operation to 10 to 400VDC
- Reaction power capability 2.5 x Real Power
- Soft power-regulated load to facility with 100% efficiency
- Power factor range: 0.5 to 1.0
- Crest factor range: 1.0W to 4.0W
- High-resolution waveform display





AC Grid Emulation for Smart Grid and EV Charging



AC Load Testing Fundamentals





Power Electronics Testing Webinars

Application Test Solutions & Approaches

NH Research is launching a series of webinars to help educate our customers across a wide range of markets and industry applications.

Our application experts present on advanced test solutions and approaches related to electrification including electric vehicles, aerospace and defense, energy storage and renewable energy. Please contact us to request a specific topic. To register for our **live** webinars, go to the [events](#) page.





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Access Our Educational Webinar Series

Access NHR's series of webinars that help educate our customers across a wide range of markets and industry applications. Our application experts present on advanced test solutions and approaches related to electrification including electric vehicles, aerospace and defense, energy storage and renewable energy.

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