

New Energy and Energy Storage Laboratory



Voltage range:691.2-947.2V

>6000 cycles(100%DOD)

Rated battery capacity:
216KWH (customizable)

EMS communication:
4G/CAN/RS485



Overview

ESRA (pronounced ez-ruh) brings together nearly 50 world-class researchers from three national laboratories and 12 universities to provide the scientific underpinning to address the nation's most pressing battery challenges, including safety, high-energy density, and long-duration. ESRA (pronounced ez-ruh) brings together nearly 50 world-class researchers from three national laboratories and 12 universities to provide the scientific underpinning to address the nation's most pressing battery challenges, including safety, high-energy density, and long-duration. Today the U. Department of Energy (DOE) announced the creation of two new Energy Innovation Hubs. One of the national hubs, the Energy Storage Research Alliance (ESRA), is led by Argonne National Laboratory and co-led by Lawrence Berkeley National Laboratory (Berkeley Lab) and Pacific Northwest. NLR offers several capabilities unique to the national laboratory system, including award-winning innovations, cutting-edge X-ray diagnostic equipment, and NLR-designed machine learning models. NLR's R&D 100 Award-winning Isothermal Battery Calorimeters are the only tools able to determine heat. Expertise in the CFN Theory and Computation Group in applying theory, computational modeling, and data analytics to gain a fundamental understanding of the structure-function relationship in energy storage materials. The Battery 500 Consortium —a DOE-sponsored consortium led by Pacific Northwestern. Lily Robertson (left) and Ilya Shkrob work on a battery materials experiment in one of Argonne's Robotic Autonomous Platforms for Innovative Discovery (RAPID) laboratories. : Argonne National Laboratory Argonne Collaborative Center for Energy Storage Science (ACCESS) Director Venkat Srinivasan finds. Today the U.

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AI transforms battery research and energy storage

Argonne on AI Transforming Battery Research as Data Centers Grow Energy Storage Markets The convergence of AI-powered research tools and emerging market demands positions ...

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Department of Energy selects Argonne to lead national energy storage

The U.S. Department of Energy has selected Argonne to spearhead the Energy Storage Research Alliance (ESRA). This energy innovation hub unites top researchers from three national ...

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New National Energy Storage Hub Will Enable Transformative Battery

Berkeley Lab's contributions to ESRA draw from its years of scientific leadership in energy storage research, which today focuses on working with national lab, academic, and industry partners to ...



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Five Labs Selected to Review Energy Storage Technologies

Three National Labs were selected to review energy storage technologies from the Decem, lab call. This supports the Energy Storage Grand Challenge (ESGC) by ...

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Scaling Novel Energy Storage Through Cross-Sector Partnerships

Its multifaceted contributions are essential for achieving a cleaner, more resilient, and decentralized energy future. We are focused on helping scale novel energy storage technologies versus more ...

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Energy Storage

At PNNL, we connect cutting-edge fundamental scientists with end-use domain experts to discover and develop new energy storage technologies for grid and transportation.

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Advanced Energy Storage: How PNNL Supports Industry from

...



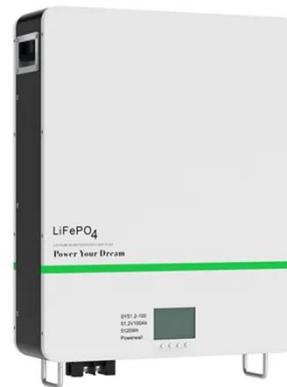
Challenges around safety, regulatory policy, performance validation and grid-scale deployment require the continued support of researchers at the National Labs to realize the promise ...

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BNL , Energy Storage & Grid Modernization

A DOE Energy Frontier Research Center led by Stony Brook University that advances and enables the deliberate design of materials and components to achieve higher performing, longer life, and safer ...

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Geothermal Energy and Storage

Idaho National Laboratory , Geothermal Energy and Storage IDAHO FALLS, Idaho -- The Idaho National Laboratory is launching SparkLab, a new student-centered and mentor-supported research ...

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Energy Storage Facilities , Transportation and Mobility Research , NLR



NLR's extensive facilities are used to evaluate and design efficient energy storage systems, as well as battery cells, modules, and packs. Researchers use a combination of tools listed ...

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