UNILOGIC

NI-Based Battery Testing Kit

A Comprehensive Hands-on Learning Tool for Engineering Students

The NI-Based Battery Testing Kit offers engineering students a hands-on platform using NI hardware and LabVIEW to simulate real-world battery testing and explore key electrical engineering concepts.

Application

- ✔ Academic Lab Experiments
- ✔ Electrical/Electronics Engineering Projects
- ✔ Research and Development Training
- ✔ Battery Behavior and Safety Analysis

Key Features

- ◈ **Perform essential tests**: Voltage, Charging Current, Discharging Current, Short Circuit
- ◈ **Automated testing** and data logging through LabVIEW
- ◈ **Plugin-based** modular software architecture
- ◈ **Accurate measurements** up to 10 µA
- ◈ **Safe, compact**, and easy-to-use setup

GET STARTED WITH THE NI-BASED BATTERY TESTING KIT TODAY!

⚡ What Does It Include?

300W Programmable DC Electronic Load (0–150 V, 40 A)

LabVIEW-based Test Automation Software

NI USB 4065 Digital Multimeter (6½ digit, ±300 V)

3.3V Battery and Charger
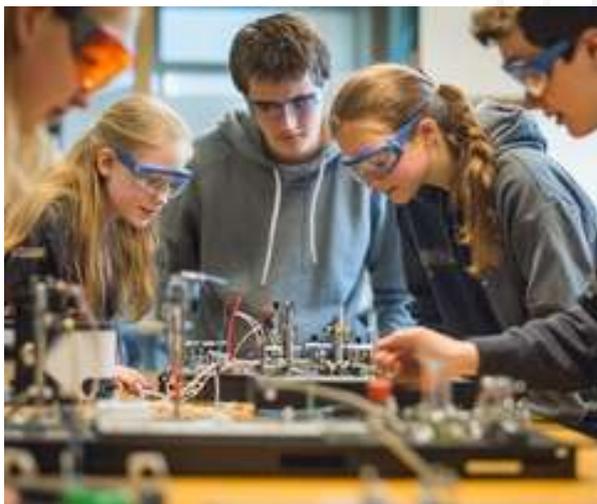
NI USB 6501 (Digital I/O)

Real-time charting and reporting features

Plugin Architecture for test customization

Windows PC Support

Manuals and Step-by-Step Test Guides

Learning Outcomes

☑ Perform voltage, charging/discharging, and short-circuit tests

☑ Learn test automation techniques with real hardware

☑ Write and customize LabVIEW Virtual Instruments (VIs)

☑ Log and analyze data using LabVIEW

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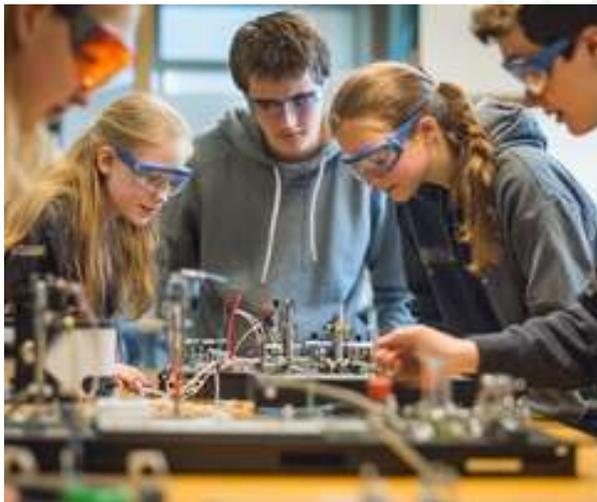
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