

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.

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

Application

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



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)

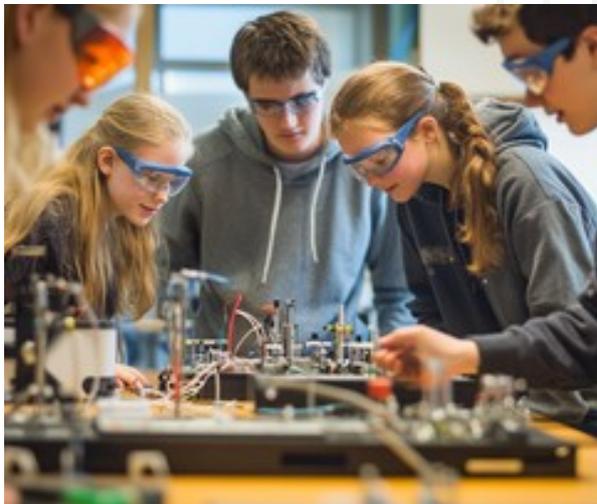
Real-time charting and
reporting features

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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