



STARS BATTERY

Test Automation System for Battery Testing

STARS Battery is an application which enables you to run battery tests regarding performance and durability. You can define and perform tests on battery packs of all types. During testing, you can interact with the Battery Management System (BMS) of the battery pack, the battery cyclers, and environmental and temperature control hardware. STARS Battery is applicable for testing duties on single battery cells, battery modules and battery stacks. It provides a standard test library with implementations of the ISO12405 and IEC62660 tests.

STARS Battery contains schedules, data loggers, and simulated devices. Using these examples, you can construct a user-specific test system from scratch or modify an existing one. Also included are demonstration projects and simulated test stands. You can use or edit these templates to quickly configure a working test system.

KEY BENEFITS

- Intuitive user interface provides excellent usability
- Allows customizable test procedures
- Interface with different test equipment, such as battery cyclers, chamber controllers or temperature controllers



FEATURES



Demo project: Example project configuration highlighting the Battery application features that can be freely adapted to meet your needs.

ISO Tests Project: Provides examples of implementing the ISO 12405-4:2018 standard tests, such as the Cranking Power or Cycle Life tests.

IEC Tests project: Support of the IEC 62660-1 standard. It contains examples of IEC 62660-1 test implementation for Capacity tests, Cycle Life tests, Energy tests, Energy Efficiency tests, Power tests, and Storage Charge Retention tests.

Battery Simulated Teststand: Example how to set up a test stand to work with the Battery application and how to use the simulated devices.

Simulated Devices: Enable application developers to create tests without the need to connect an actual device to the system.

Multi-station test stand: Test up to twenty battery cells in parallel.

HORIBA provides advanced mobility leadership and comprehensive engineering and measurement expertise to support the gradual shift from traditional propulsion, to fully electrified solutions.

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