

LinkAnyArts-BT

Emulates EV Battery Dynamics to Advance Real-World Powertrain Evaluations

Outline

LinkAnyArts-BT is Battery Emulation Software designed exclusively for Takasago test systems.

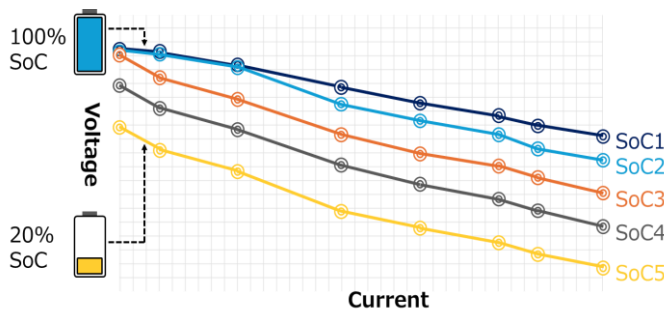
- **Programming:** Users can program the emulation parameters via the graphical user interface (GUI) or by importing actual measured data from secondary batteries.
- **Control:** Control of the test system is possible via an external PC or by registering the emulation program within the test system for autonomous standalone operation.
- **Performance History:** This software allows users to record and log the current, voltage, and power data for motoring/regenerative operations.

Features

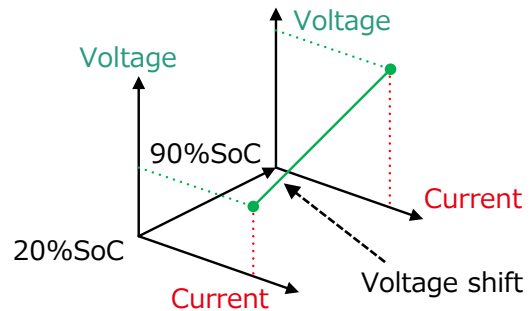
Programming

The editor allows users to define arbitrary battery I-V characteristics. Users can then create a variety of emulation environments by selecting up to 121 I-V patterns based on combinations of the state of charge (SoC) and temperature.

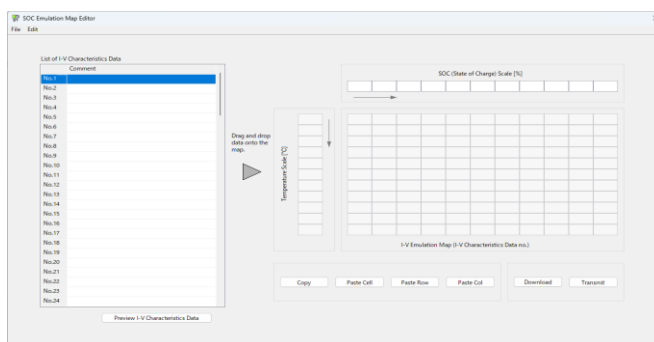
I-V Characteristics



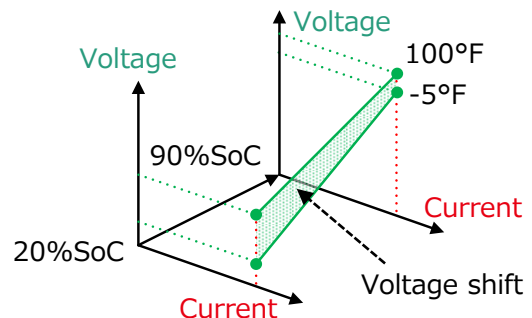
I-V Characteristics by SoC



SoC Emulation Map Editor



I-V Characteristics by SoC and Temperature



Various Settings

- Import measured battery I-V characteristics in CSV file format to create a real-world battery emulation environment.
- Configure an equivalent circuit model that simplifies the configuration of an emulation environment.
- Constant voltage (CV) output setting.

Auto-Interpolation

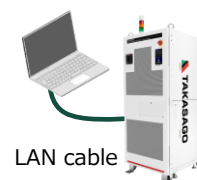
Automatically interpolate missing I-V data points and I-V characteristics for unconfigured SoC conditions.

Safety Features

- Configure protection settings with current, voltage, and power limits. Even under high-current test conditions, this feature ensures the safety of both the device under test (DUT) and the operator.

Test Control Configuration

Install the software on a PC with Windows 11 installed to configure the execution environment. Connect the Takasago test system to the PC via Ethernet for control, data communication, and storage. Save the battery emulation settings on the PC to the test system for standalone operation.



Specifications

Description		LinkAnyArts-BT
Model Name		LA-3289
Compatible Model		RZ-X2-100K-HG
Interface		Ethernet
Output Settings for Constant Value Control		Voltage
Real-Time Viewer	Data	Current/Voltage/Power SoC measured data
	Update Interval	0.5 seconds
Logging Data		Operation Logging (sampling rate 10 Hz minimum)
Other Features		Protection settings (current, voltage, power) to pause or terminate the test
Operating Environment		Microsoft Windows 11 (64-bit)

TAKASAGO, LTD., reserves the right to modify the features and specifications in this brochure at any time without prior notice or obligation. For the most up-to-date information, please visit our website at www.takasago-ss.co.jp/en/.

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