WBCS3000Le64RJIG

64 Channel Coin Cell Battery Test System with Coin Cell Jig

- *64 channel system with coin cell jig included*
- *Charge/Discharge Software: Battery Interface*
- *Techniques and various control modes for battery testing*
- *±100mA current over 4 current ranges*
- *Applied voltage range of ±5V*
- *Potentiostat/Galvanostat circuit*
- *High accuracy*
- *Sampling time of 10msec*
- *Plugin channels for easy maintenance*
- *LAN communication*

64 channel Battery Charge/Discharge Test System (with Coin Cell Jig) for coin cell test

The 64 channel battery test system, WBCS3000Le64RJIG, is designed with coin cell jigs and provides a battery test system configured with 64 channels.

Coin cells are often used to test the capacities and rate capabilites of new materials in the initial stage and the WBCS3000Le64RJIG can be a perfect choice for coin cell testing at high C-rates and half cell testing. Not only does the WBCS3000Le64RJIG support various techniques for battery studies, but also carries out electrochemical techniques such as corrosion test techniques, electro-analytical techniques, cyclic voltammetry, chronoamperometry, and potentiometry, etc. and this feature allows user to perform general Echem experiments.

The WBCS3000Le64RJIG has four current control ranges of 100uA to 100mA and voltage range of -5V to +5V as standard. The accuracy for current and voltage on these channels is ±0.02% FSR. The sampling time is 10msec.

The Battery Interface(BI) software is user-friendly and supports charge/discharge experiments with built-in techniques and user-defined protocols.
- easily making schedule files by using schedule editor
- selecting pre-defined techniques
- classifying/grouping channels by user's purpose
- monitoring detailed test data
- providing general/cycle graph format
- converting the data to ASCII or excel format

The WBCS3000Le64RJIG is configured by connecting a 64 channel battery test system(max.100 mA) with 64 channel coin cell jig, and it can communicate with the computer via a Local Area Network (LAN).

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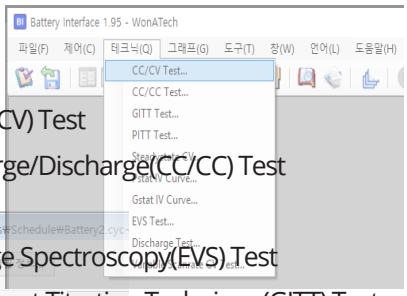
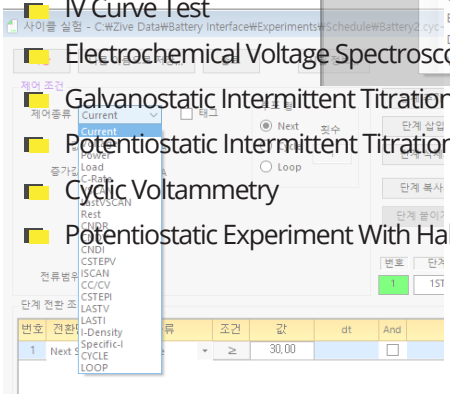
Features

- Potentiostat/Galvanostat circuit : no time delay between the charge and discharge cycles.
- The system includes jigs for 64 channel coin cell testing, allowing direct use for coin cell test.
- Supports techniques for battery studies such as CC/CV test, CC/CC test, C-rate/CV test, CV test, as well GITT/PITT test for calculation of diffusion coefficient.
- Tests the coin cell to charge-discharge cycles at the required C-rate.
- High sampling rate for calculating dynamic charge/discharge capacity ratings.
- The various safety functions are provided to protect the cell and system from being damaged.
- The obtained data can be analyzed by IVMAN™ software without license code for further analysis.

For Coin Cell Test





- Charge/Discharge(CC/CV) Test
- Constant Current Charge/Discharge(CC/CC) Test
- IV Curve Test
- Electrochemical Voltage Spectroscopy(EVS) Test
- Galvanostatic Intermittent Titration Technique(GITT) Test
- Potentiostatic Intermittent Titration Technique(PITT) Test
- Cyclic Voltammetry
- Potentiostatic Experiment With Half Cell

Specifications

Control voltage range	±5V
Control current range	100mA, 10mA, 1mA, 100uA (4 ranges)
LED	Run: 1ea
Input impedance	10^{12} Ohm
Cell connection	Connection with a 64 channel coin cell jig
No. of channels	64 (max. channels per case)
Max. channel No.	up to 128 channels (2set)
Voltage accuracy	±0.02% f.s.
Current accuracy	±0.02% f.s.
Voltage Control/Measurement	
Full scale ranges	±5V
Resolution(16 bits)	0.15mV
Current Control/Measurement	
Full scale ranges	max. 100mA@5V
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	50msec
Size	W541xD505xH511mm (excluding jig)
Coin Cell Jig	
No. of channels	64

All specifications are subject to change without notice.

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