

WBCS3000Le32 32 Channel Low Current Battery Test System



- 32 channel system
- Channel expansion is available
- Perfect for coin cell test at various C-rates
- ±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

32 channel Battery Charge/Discharge Test System for low current application

The 32 channel battery test system, WBCS3000Le32, is designed for low current applications and it allows multichannel operation users to set up a battery test system at an affordable price.

Coin cells are often used to test the capacities and rate capabilites of new materials in the initial stage and the WBCS3000Le32 can be a perfect choice for coin cell testing at high C-rates and half cell testing. Not only does the WBCS3000Le32 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 WBCS3000Le32 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 Smart Interface(SI) software is a convenient and powerful tool allowing:

- 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 compact size WBCS3000Le32 is supplied with eight cell cables and can communicate with the computer by the way of a Local Area Network(LAN).



WBCS3000Le32

• Features

- Potentiostat/Galvanostat circuit : no time delay between the charge and discharge cycles.
- 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.
- Minimum order channel is 16 channels and extra channels can be added by the unit of 16 channels.
- 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 Energy 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

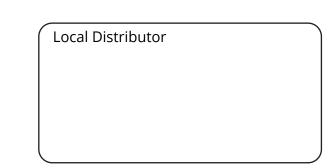
Options

- Battery Jig
- 🗖 Test Cell
- Dilatometer

• Specifications

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Control voltage range	±5V
Control current range	100mA, 10mA, 1mA, 100uA (4 ranges)
LED	Run: 1ea
Input impedance	10 ¹² Ohm
Cell connection	4 probe type, alligator clip cables
No. of channels	16 (minimum order channel) 32 (for a standard system)
Max. channel No.	up to 128 channels
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	Without option - Le32 1set (max 32 channels) : 10msec - Le32 2set (max 64 channels) : 50msec - Le32 3set (max 96 channels) : 50msec - Le32 4set (max 128 channels) : 50msec With Option (Aux V and/or Temperature) - Le32 1set (max 32 channels) : 20msec - Le32 2set (max 64 channels) : 50msec - Le32 3set (max 96 channels) : 50msec - Le32 4set (max 128 channels) : 50msec
Size	W541xD454.6xH253.8mm

All specifications are subject to change without notice.





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