

## 32 Channel Automatic Battery Test System

# WBCS3000Lx32



- 32 channel system
- Channel expansion is available
- Max.  $\pm 1A$  current with 4 current ranges
- Applied voltage range of -1V to 5V
- Potentiostat/Galvanostat circuit
- High accuracy
- Sampling time of 10msec
- Plug-in channels for easy maintenance
- LAN communication

### 32 channel Battery Charge/Discharge Test System

The 32 channel battery test system, the **WBCS3000Lx32**, is designed for max 1A single cell applications and it allows multichannel operation users to set up a battery test system at an affordable price.

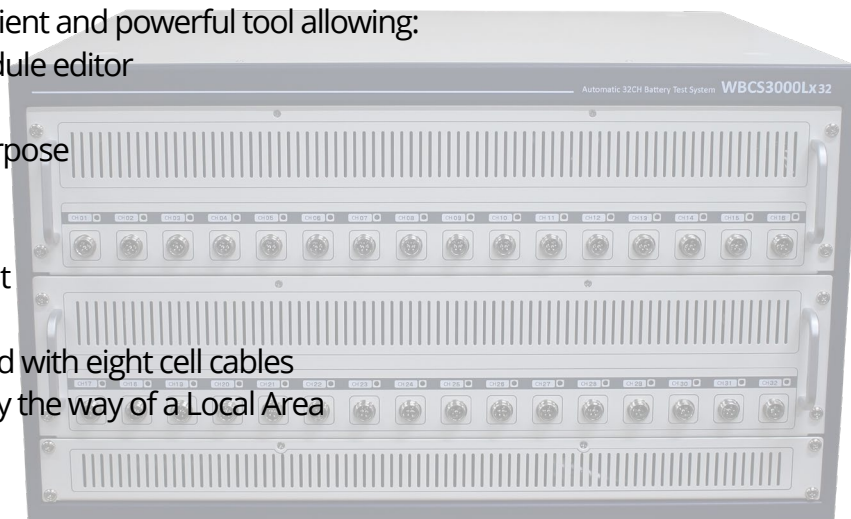
High capacity coin cells are often used to test the capacities and rate capabilities of new materials in the initial stage. The **WBCS3000Lx32** can be a perfect choice for coin cell, cylindrical cell, pouch cell testing and half cell testing.

The **WBCS3000Lx32** has four current control ranges of 1 mA to 1A(4 ranges) and voltage range of -1V to +5V. The accuracy for current and voltage on these channels is  $\pm 0.02\%$  FSR. The sampling time is 10msec for a 32 channel system.

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 **WBCS3000Lx32** is supplied with eight cell cables and can communicate with the computer by the way of a Local Area Network(LAN).



## ● 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, CV test as well GITT/PITT test for calculation of diffusion coefficient.
- 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
- Pouch Cell Jig
- Test Cell
- Dilatometer

## ● Specifications

Control voltage range	-1V to +5V
Control current range	1A, 100mA, 10mA, 1mA (4 ranges)
LED	Run: 1ea
Input impedance	10 <sup>12</sup> Ohm
Cell connection	4 probe type, alligator clip cables
No. of channels	16 (minimum order channel) 32 (for a standard system)
Channel expansion	up to 128 channels
Rise time	<50usec
Voltage accuracy	±0.02% f.s.
Current accuracy	±0.02% f.s.

### Voltage Control/M Measurement

Full scale ranges	-1V to +5V
Resolution(16 bits)	0.15mV

### Current Control/M Measurement

Full scale ranges	max. 1A@5V
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	10msec (20msec: with option)

All specifications are subject to change without notice.



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