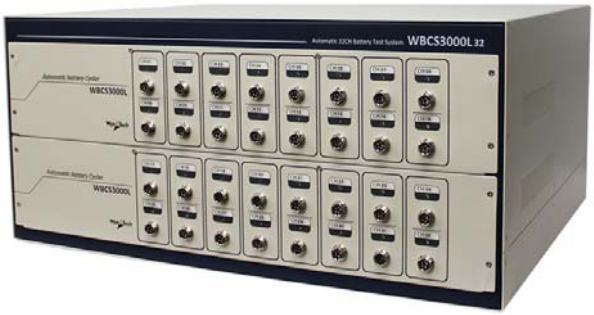
WBCS3000Le32

32 Channel Low Current Battery Test System



- *32 channel system*
- *Perfect for coin cell test at various C-rates*
- *±100mA current over 3 current ranges*
- *Applied voltage range of ±5V*
- *Potentiostat/Galvanostat circuit*
- *High accuracy*
- *Sampling time of 20msec*
- *Plugin channels for easy maintenance*
- *LAN communication*

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

The 8 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 a current control range of 1mA to 100mA and voltage range of -5V to +5V as standard. The accuracy for current and voltage on these channels is ±0.01% FSR. The sampling time is 20msec for a standard 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 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

Control voltage range	±5V
Control current range	100mA, 3 ranges
LED	Run: 1ea
Input impedance	10^{10} Ohm
Cell connection	4 probe type, alligator clip cables
No. of channels	8
Slew rate	1V/usec
Voltage accuracy	±0.01% f.s.
Current accuracy	±0.01% 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	32 channel system : 20msec 48 ~ 128 channel system : 50msec

All specifications are subject to change without notice.

WonATech Co., Ltd.
7 Neunganmal 1-gil, Seocho-gu,
Seoul, 06801, Korea
Tel: +82-2-578-6516 Fax: +82-2-576-2635
e-mail: sales@wonatech.com
website: www.wonatech.com

Local Distributor