

WBCS3000HP

High Power Battery Test System



- For high power applications
- Test of battery cells up to 4kWatt
- 1 or 3 current ranges
- Potentiostat/Galvanostat circuit
- High accuracy
- Max 128 channels configuration
- Channel module type for easy maintenance
- LAN communication

Battery Charge/Discharge Test System

for high power application

The battery test system, WBCS3000HP, is designed for energy storage devices such as batteries, fuel cells, and supercapacitors. The WBCS3000HP is derived from the standard WBCS series battery cycler system and it provides continuous operation in high power applications where precise control of current and voltage is required.

The WBCS3000HP can be configured with custom specification not exceeding its maximum power (4kWatt). Please refer to the power configuration map.

This offers high output/measure accuracy with 1 or 3 customizable current ranges depending on system power.

Each channel has its own power supply and emergency button to cell off for emergency.

Optional accessories for this system is auxiliary voltage measurement and temperature measurement.

Extra channels can be added up to a maximum of 128 channels. Including watchdog functions, the WBCS3000HP has multiple safety features to protect the system under test and operator.

The WBCS3000HP does not only 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.

WBCS3000HP Series

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

Features

- Suitable for energy storage device and high power applications.
- 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
- The various safety functions are provided to protect the cell and system from being damaged.
- Industrial rack mount system.
- 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

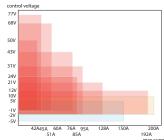
Specifications

Control current range	1 or 3 range depending on power
LED	Run: 1ea, Mode: 2ea
Input impedance	10 ¹² Ohm for V < 10V
Cell connection	4 probe type, alligator clip cables
Max. channel No.	128
Voltage accuracy	±0.1% f.s.
Current accuracy	±0.1% f.s.

Current&Voltage Control/Measurement

Resolution(16 bits)	0.0015% f.s	

Full scale ranges



Power Configuration Map

Maximum current depending on voltage range

- 1) Max 150A @ ±5V
- 2) Max 192A @ -2V~+12V
- 3) Max 200A @ -2V~+10V
- 4) Max 128A @ -2V~+21V
- 5) Max 85A @ -2V~+24V
- 6) Max 95A @ -2V~+31V
- 7) Max 76A @ -1V~+43V
- 8) Max 42A @ -1V~+50V
- 9) Max 51A @ -1V~+68V 10) Max 45A @ -1V~+77V

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Communication	TCP/IP	
Sampling time	Without option -1~32 channels system: 10msec -33~40 channels system: 20msec -41~64 channels system: 50msec -65~128 channels system: 50msec With option (Aux V and/or Temperature) -1~16 channels system: 10msec -17~40 channels system: 20msec -41~64 channels system: 50msec -65~128 channels system: 50msec	
Size	W624xD900xH1600mm	

All specifications are subject to change without notice.

Options

- Temperature Measurement
- Auxiliary Voltage Measurement

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