

WBCS3000H8 series

Power Battery Test System channels



- *For high power applications*
- *Test of battery cells up to 800Watt*
- *4 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 power channel, **WBCS3000H8 series**, for battery test system are designed for energy storage devices such as batteries, fuel cells, and supercapacitors. The **WBCS3000H8 series** are 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 **WBCS3000H8 series** can be configured with custom specification not exceeding its maximum power (800Watt). Please refer to the power configuration map.

Typical models for WBCS3000H8 are

- $\pm 5V$ @ 52Amp WBCS3000H8_552B
- -1V to 10V @ 46Amp WBCS3000H8_1046U
- -1V to 21V @ 29Amp WBCS3000H8_2129U
- -1V to 31V @ 20Amp WBCS3000H8_3120U
- -1V to 43V @ 15Amp WBCS3000H8_4315U

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 **WBCS3000H8 series** has multiple safety features to protect the system under test and operator.

The **WBCS3000H8 series power channel** requires independent 8channel controller. This 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.

Independent 8channel controller uses Smart Interface(SI) software which 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.
- Emergency button per channel.
- 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

- Temperature Measurement
- Auxiliary Voltage Measurement

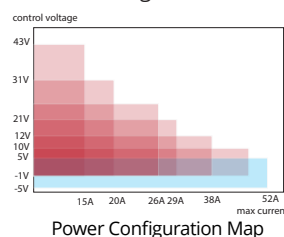
● Specifications

Control current range	4 ranges
LED	Run: 1ea, Mode: 2ea, Irange: 4ea
Input impedance	10 ¹² Ohm for V<10V
Cell connection	4 probe type, alligator clip cables
Max channel no.	128
Voltage accuracy	±0.05% f.s. (<10V)
Current accuracy	±0.1% f.s.

Current&Voltage Control/Measurement

Resolution(16 bits)	0.0015% f.s
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Full scale ranges



Maximum current depending on voltage range

- 1) Max 52A @ ±5V
- 2) Max 46A @ -1V~+10V
- 3) Max 38A @ -1V~+12V
- 4) Max 29A @ -1V~+21V
- 5) Max 26A @ -1V~+24V
- 6) Max 20A @ -1V~+31V
- 7) Max 15A @ -1V~+43V

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	W447xD505xH241mm

All specifications are subject to change without notice.



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