

WPG100H8 Series

Power Potentiostat Galvanostat



- *For power applications*
- *Max 800Watt*
- *3 current ranges*
- *Applied voltage range of Max $<\pm 40V$*
- *4 Kelvin probe type P'stat/G'stat circuit*
- *High accuracy*
- *Sampling time of 500usec*
- *LAN communication*

Power Potentiostat/Galvanostat for high power application

The power potentiostat/galvanostat **WPG100H8** is designed for high power purpose electrochemical experiments and its versatile features allow users to perform a wide range of electrochemical research and development. The **WPG100H8** power limit is 800Watt.

The **WPG100H8** can be configured with custom specification not exceeding its maximum power (800Watt), voltage limitation($<+/-40V$).

Typical models for WPG100H8 are

- -10V to 10V @ 50Amp WPG100H8_1030B
- -20V to 20V @20Amp WPG100H8_2015B
- -40V to 40V @10Amp WPG100H8_408B

There is an emergency button to cell off for emergency.

Optional accessories for this system is auxiliary voltage measurement and temperature measurement. The **WPG100H8** can support power application such as electrosynthesis, electrolysis, electroplating and experiments on energy devices.

The Smart Interface(SI) software for WPG potentiostat/galvanostat 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 **WPG100H8** can communicate with the computer by the way of a Local Area Network(LAN).

● Features

- 3 current ranges for improved accuracy over a wide range of testing conditions.
- High resolution 16 bit DAC/ADC for system control and data acquisition.
- 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.
- High sampling rate.
- 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 Electroanalytical Measurement

- Cyclic voltammetry
- Linear sweep voltammetry
- Chrono-amperometry
- Chrono-coulometry
- Chrono-potentiometry

● Corrosion Measurement

- Tafel plot
- Potentiodynamic
- Potentiostatic
- Galvanostatic
- Cyclic polarization
- Ecorr vs. time
- Linear polarization resistance

● For Energy Test

- Charge/Discharge(CC/CV) Test
- Constant Current Charge/Discharge(CC/CC) Test
- Steady state CV
- Pstat IV curve
- Gstat IV curve
- Electrochemical Voltage Spectroscopy(EVS) Test
- Galvanostatic Intermittent Titration Technique(GITT) Test
- Potentiostatic Intermittent Titration Technique(PITT) Test

● Specifications

Control voltage range	Max <±40V
Compliance voltage	Depending on control voltage
Control current range	3 ranges
LED	Run: 1ea, Mode: 2ea, Irange:3 ea
Input impedance	10 ¹² Ohm
Cell connection	4 probe type, alligator clip cables
No. of channels	1 per module
Voltage accuracy	±0.05% f.s.
Current accuracy	±0.1% f.s.
Voltage Control/Measurement	
Full scale ranges	Max ±40V
Resolution(16 bits)	0.0015% f.s
Current Control/Measurement	
Full scale ranges	Max. f.s under 800Watt
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	500usec

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