

WPG100H12 Series

Power Potentiostat/Galvanostat



- For power applications
- Max 1200Watt
- 4 current ranges
- Temperature input, Aux voltage input
- 4 Kelvin probe type P'stat/G'stat circuit
- High accuracy
- Sampling time of 1msec
- LAN communication

Power Potentiostat/Galvanostat for high power application

The power potentiostat/galvanostat **WPG100H12** 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 **WPG100H12** power limit is 1200Watt.

The **WPG100H12 series** can be configured with custom specification not exceeding its maximum power (1.2kWatt). Please refer to power configuration map.

Typical models for WPG100H12 are

- $\pm 10V @ 50Amp$ WPG100H12_1050BC10
- $\pm 20V @ 25Amp$ WPG100H12_2025BC21
- $\pm 40V @ 12Amp$ WPG100H12_4012BC43

* Customized specification is available.

There is an emergency button to cell off for emergency.

Auxiliary voltage input and temperature input are included. (Temperature sensor and Aux voltage cable are not included)

The **WPG100H12 series** 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 **WPG100H12 series** can communicate with the computer by the way of a Local Area Network(LAN).

● Features

- 4 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.
- Max 90V in unipolar and $\pm 45V$ in bipolar.

● 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

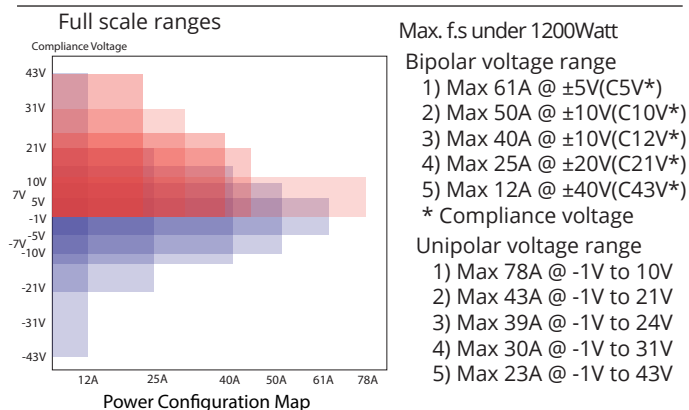
● Specifications

Control voltage range	Refer to Power configuration map
Control current range	4 ranges
LED	Run: 1ea, Mode: 2ea, Irange:4 ea
Input impedance	10^{12} Ohm
Cell connection	4 probe type, alligator clip cables
No. of channels	1 per module
Voltage accuracy	$\pm 0.05\%$ f.s. (<10V)
Current accuracy	$\pm 0.1\%$ f.s.

Voltage Control/Measurement

Full scale ranges	Refer to Power configuration map
Resolution(16 bits)	0.0015% f.s

Current Control/Measurement



Full scale ranges	Max. f.s under 1200Watt
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	1msec

All specifications are subject to change without notice.



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