

WPG100H12 Series

Power Potentiostat Galvanostat



- For power applications
- Max 1200Watt
- 3 current ranges
- Applied voltage range of Max <±40V</p>
- 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 potentiotiostat/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), voltage limitation (<+/-40V).

Typical models for WPG100H12 are

- -10V to 10V @ 50Amp WPG100H12_1050B
- -20V to 20V @25Amp WPG100H12_2025B
- -40V to 40V @13Amp WPG100H12 4013B

There is an emergency button to cell off for emergency.

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

- 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 1200Watt
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	500usec
All specifications are subject to change with	out notice

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