

WPG100H Series

Power Potentiostat/Galvanostat





WPG100H8

WPG100H12

- For power applications
- 800Watt(H8) or 1200Watt(H12)
- 6(H8) or 4(H12) current ranges
- Temperature input/Aux V 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 potentiotiostat/galvanostat WPG100H8 or 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 WPG100H series power limit is 800Watt(H8) or 1200Watt(H12).

The WPG100H series can be configured with custom specification not exceeding its maximum power (800Watt:H8 or 1.2kWatt:H12). Please refer to power configuration map.

Typical models for WPG100H8 are

- ±10V @ 32Amp
- WPG100H8_1032BC10
- ±20V @ 16Amp
- ±40V @ 8Amp
- WPG100H8_2016BC21 WPG100H8 408BC43

Typical models for WPG100H12 are

• ±10V @ 50Amp

WPG100H12_1050BC10 WPG100H12_2025BC21

• ±20V @ 25Amp • ±40V @ 12Amp

WPG100H12 4012BC43

There is an emergency button to cell off for emergency.

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

The WPG100H 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 WPG100 series can communicate with the computer by the way of a Local Area Network(LAN).

Features

- 6(H8) or 4(H12) 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 90Volt in unipolar and ± 45V in biplar.

• 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

| Control voltage range | Depending on control voltage |
|-----------------------------|-------------------------------------|
| Control current range | 6(H8) 4(H12) ranges |
| LED | Run: 1ea, Mode: 2ea, Irange:6(4)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.(<10V) |
| Current accuracy | ±0.1% f.s. |
| Voltage Control/Measurement | |
| Full scale ranges | Depending on control voltage |
| Resolution(16 bits) | 0.0015% f.s |
| | |

Current Control/Measurement

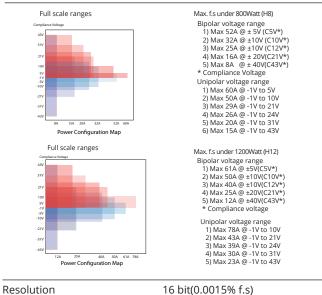
Communication

Sampling time

All specifications are subject to change without notice.

Local Distributor

Specifications



TCP/IP

1msec

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