

WMPG1000H Series

Power Multichannel Potentiostat/Galvanostat channel





WMPG1000H8

WMPG1000H12

- For power applications
- 800Watt(H8) or 1200Watt(H12)
- 5(H8)/4(H12) current ranges
- Applied voltage range of Max <±40V
- 4 Kelvin probe type P'stat/G'stat circuit
- High accuracy
- Max 64 channels configuration
- Independent power supply per each channel
- LAN communication



Power Potentiostat/Galvanostat channel for high power mulichannel application

The power potentiotiostat/galvanostat channel, WMPG1000H8 or WMPG1000H12, 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 WMPG1000H seires requires external 8channel controller and the channel power limit is 800Watt(H8) or 1200Watt(H12).

The WMPG1000H series can be configured with custom specification not exceeding its maximum power (800Watt:H8 or 1.2kWatt:H12), voltage limitation(<+/-40V).

Typical models for WMPG1000H8 are

- ±10V@32Amp WMPG1000H8_1032BC10
- ±20V @ 16Amp WMPG1000H8_2016BC21
- ±40V @ 8Amp WMPG1000H8_408BC43

Typical models for WMPG1000H12 are

- ± 10V @ 50Amp WMPG1000H12_1050BC10
- ± 20V @ 25Amp WMPG1000H12_2025BC21
- ± 40V @ 12Amp WMPG1000H12_4012BC43

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

The WMPG1000H series channel can support power application such as electrosynthesis, electrolysis, electroplating and experiments on energy devices.

The Smart Interface(SI) software for WMPG multichannel 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 WMPG1000 series can communicate with the computer by the way of a Local Area Network(LAN).

Features

- 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

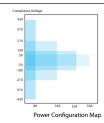
For Energy Test

- 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

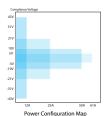
Max <±40V
Depending on control voltage
5 ranges: H8 4 ranges :H12
Run: 1ea, Mode: 2ea, Irange: 5ea(H8), 4 ea(H12)
10 ¹² Ohm
4 probe type, alligator clip cables
1 per module Max 64ch configuration
±0.05% f.s.(<10V)
±0.1% f.s.
Max ±40V
0.0015% f.s

Current Control/Measurement



Maximum current depending on voltage range (H8)

- 1) Max 52A @ ±5V(C5V*)
- 2) Max 32A @ ±10V(C10V*)
- 3) Max 16A @ ±20V(C21V*)
- 4) Max 8A @ ±40V(C43V*)
- * Compliance Voltage



Maximum current depending on voltage range(H12)

- 1) Max 61A @ ±5V (C5V*)
- 2) Max 50A @ ±10V (C10V*)
- 3) Max 25A @ ±20V (C21V*)
- 4) Max 12A @ ±40V (C43V*)
- * Compliance Voltage

Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	Without option - 8-40 channels system: 10msec - 41-64 channels system: 10msec (2 SIF Boards) With Option - 8-16 channels system: 10msec - 17-40 channels system: 10msec (2 SIF Boards) - 41-64 channels system: 20msec (2 SIF Boards)

All specifications are subject to change without notice.

Local Distributor

Won A Tech

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