

WMPG1000HP Series

High Power Multichannel Potentiostat/Galvanostat



- *For high power multichannel applications*
- *< 4kWatt*
- *3 or 1 current ranges*
- *Applied voltage range of Max $\pm 40V$*
- *4 Kelvin probe type P'stat/G'stat circuit*
- *High accuracy*
- *Max 128 channels configuration*
- *Independent power supply per each channel*
- *LAN communication*

High Power Potentiostat/Galvanostat for high power multichannel application

The high power potentiostat/galvanostat, **WMPG1000HP**, 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 **WMPG1000HP series** is equipped in rack module.

The **WMPG1000HP series** can be configured with custom specification not exceeding its maximum power (4kWatt), voltage limitation ($\pm 40V$).

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 **WMPG1000HP series** 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

- 3 or 1 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 $\pm 40V$
Compliance voltage	Depending on control voltage
Control current range	3 or 1 ranges
LED	Run: 1ea, Mode: 2ea
Input impedance	10^{12} Ohm
Cell connection	4 probe type, alligator clip cables
Max. channels	Max 128ch configuration
Voltage accuracy	$\pm 0.05\%$ f.s.
Current accuracy	$\pm 0.1\%$ f.s.
Voltage Control/Measurement	
Full scale ranges	Max $\pm 40V$
Resolution(16 bits)	0.0015% f.s
Current Control/Measurement	
Full scale ranges	Max. f.s under 4kW
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	- 8~24 channel system : 10msec - 25~40 channel system : 20msec standard, 10msec as an option - 41~128 channel system : 50msec standard, 10msec as an option

All specifications are subject to change without notice.



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