



SERIES 8000 HIGH POWER AUTOMATED TEST SYSTEM

The multifunction Series 8000 High Power Test System is a fully automated, computerized test system providing the highest level of specifications and features available in the industry.

With channel ratings as high as **700 Volts and 1000 Amps**, the Series 8000 is the perfect instrument in your toolbox for high power applications. Using Maccor's Standard Full Feature Battery Test Software, the Series 8000 is the most powerful test system you will own. Perform virtually any type of test (FUDS, SFUDS, DST, etc) on any type of energy storage device (batteries, battery packs, super-capacitors, fuel cells, etc.). The Series 8000 comes standard with the high level accuracy, resolution, and dependability satisfied Maccor customers expect.

FEATURES:

- Test channels operate independently of the other positions
- Easily programmable to run a wide range of multiple step tests
- Operate in steps in any combination of fixed current, power, voltage, or resistance
- Record data at operator specified intervals of time, voltage, current, etc.
- Delivered calibrated to NIST traceable standards, and requires calibration only once per year
- Automatic scaling of W/kg for FUDS, SFUDS, DST, and other driving simulation test protocols

The Series 8000 is supplied as a complete turnkey system consisting of a test cabinet(s), computer, tester software, and data analysis software. The test cabinet, with a distributed architecture, is connected to the tester PC via an Ethernet communications network.

Specifications

Configuration

Charge Current	increments of 145 Amps
Discharge Current	increments of 100 Amps
Voltage	increments of 50 Volts, maximum 700 Volts
Power	increments of 50 kW

Sample Configuration

<u>Channels</u>	<u>Voltage</u>	<u>Channel Charge Current</u>	<u>Channel Discharge Current</u>	<u>Maximum Channel Power¹</u>
4	50 to 600 V	0 to 145 A	0 to 500 A	200 kW

Accuracy

Voltage & Current	±0.05% of Full Scale
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Resolution

Voltage & Current	16-bit (1 part in 65,536)
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Time

Minimum Step Time	10 mS
Control, Measurement, and Adjustment	every 10 mS

Modes of Operation

Constant: Current, Power, Resistance, or Voltage

Import Test Step: Where an ASCII text file containing a table (list) of constant current or power values at fixed or specified intervals is executed as a test step. The values in the table can be automatically scaled for W/kg or C rate.

Options

1kHz High-Speed Data Acquisition Burst Mode

Auxiliary Voltage Inputs	±5V, ±10V, ±20V, etc.
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Temperature Monitoring	K, J, T, thermistor
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Control of External Load and/or Charger	
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Environmental Chamber Control	
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All specifications subject to change, please contact Maccor for latest specification.

¹ In Charge, Channel Power is Battery Voltage less Power Supply Voltage multiplied by current. In Discharge, Channel Power is Battery Voltage multiplied by current.

MACCOR

Maccor, Inc

2805 West 40 th Street	Tulsa, Oklahoma 74107 USA
Telephone: 918 446-1874	Facsimile: 918 445-1496
Web: www.maccor.com	Email: m.hulse@maccor.com