

MACCOR

BATTERY & CELL TEST EQUIPMENT WORLD WIDE

Series 4600A Automated Test System



192 Position Model 4600A

The multifunction Series 4600's (Models 4600A and 4650A) secondary cell test systems have been engineered to provide high capabilities for large scale single cell testing at an economical price.

Each test position:

- Operates independently of the other positions
- Can be user programmed to run a wide range of multi step tests
- Can be user programmed to operate in steps of constant current, constant power, constant voltage, or constant resistance
- Is delivered calibrated to NIST traceable standards, and requires calibration only once per year

The Series 4600A is supplied as a complete turnkey system with PC computer and software. Each system is available from a 32 position desktop model to large test and quality control models with thousands of test positions. Desktop models are usually available from stock.

Powered by Maccor's standard test system software and utilizing similar technology as found in Maccor's high-precision Series 4000 Automated Test System, the Series 4600's are ideal for today's testing standards. During the test, data is recorded at operator specified intervals. At any time during the test data can be viewed or plotted. Custom data handling interfaces or user interfaces are available as options.

The Model 4600A has a Phoenix connector interface with horizontal cell configuration providing a dense and compact configuration. The Model 4600A is supplied in a desktop cabinet as standard with 32-test positions per cabinet. As an option the system can be supplied in a 19" rack cabinet, each 19" rack cabinet can handle up to 192 test positions.

The Model 4650A has a Powerpole® interface with vertical cell configuration. The 4650A has a slightly larger footprint than the 4600A, each cabinet can be configured with as many as 256 test positions.

For production and quality control systems, custom software can be supplied as an option to automatically add key test data to a company database. Custom data handling interfaces are also available as options.

Specifications

Current Range	Refer to Note 1
Current Accuracy	±0.05% FSR

Note1: Available in current ranges of 2.5A, 1A, 500mA, 250mA, 150mA, or 20mA. Each module has 32-channels and all the channels in a module must have the same full-scale current range.

Turn-On & Settling Times in Constant Current Mode	
Currents Greater Than 40% of Full-Scale	less than 150 mS
Currents Greater Than 3% of Full-Scale	less than 500 mS

Voltage	
Measurement Range	0 – 5 Volts
Minimum Discharge	0.2 volts or 0.35 x Current, whichever is greater
Voltage Accuracy	±0.05% FSR

Modes of Operation	
Constant Current Constant Power Constant Resistance Constant Voltage	
Fixed 1kHz AC Impedance Measurement	

Time	
Minimum Step Time	500 mS
Control, Measurement, and Adjustment	every 50 mS

Options

Cell Holders	
Molded True 4-Wire Kelvin Cell Holders	AAA, AA, C, D, 9V, and 18650
Universal Button Cell Holders	
Spring Loaded Binding Posts	

Cables	
Contact Maccor's Sales Department for Length and Terminations	

Uninterruptible Power Supply	
Calibration and Maintenance Service	



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