



Series 4600A Automated Test System

The multifunction Series 4600's (Models 4600A) 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.

NOTE: SYSTEM CABINET TYPE AND IT'S COLOR ARE NOT ALWAYS IDENTICAL TO THE IMAGE SHOWN HEREOF .



Max 192 channel Series 4600A

Specifications

Current Range	Fefer to Note 1
Current Accuracy	±0.05% Full Scale
Note1: Available in current ranges of 2.5A,1A,500mA,150mA,or 20mA Each range module has 32-channels and all the channels in a module must have the same full-scale current range	
Time On & Setting Times in Constant Current Mode	
Current Greater Than 40% of full scale	less than 150mS
Current Greater Than 3% of full scale	less than 500mS
Voltage	
Measurement Range	0~5V Volts(Negative Voltage Available)
Minimum DischargeAccuracy	0.2volt or 0.35 X Current,whichever is greater
Voltage Accuracy	±0.05% Full Scale
Modes of Operation	
Fixed(Constant) Current	Fixed(Constant) Power
Fixed(Constant) Resistance	Fixed(Constant) Voltage
1kHz AC Impedance Measurement	
Time	
Minimum Step Time	50mS‡
Control, Measurement, and Adjustment	every 50mS

Options

Cell Holders	Coin Cell Holder Adjustable Cylindrical Cell Holders Universal Polymer Holder
Cables	Contact Sales Department for Length and Terminations
Appropriately Sized Uninterruptible Power Supply	
Calibration and Maintenance Service	

AC Power Input

For each system, tow separate AC inputs are required, one to power the electronics and one for the charge power.

Power for Electronics

110 or 220/240 VAC Single-Phase
50/60 Hertz

Power for Charge

186 to 265 VAC Single-Phase
50/60 Hertz



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