

Multi-Channel Test System

Battery Cells, Modules and Packs



- Multi-channel capable, from 5-1000V, 80 -1000A, up to 500kW per channel
- Independent environmental chamber integration
- I/O available for cell voltage, temperature and pressure monitoring
- Remote software monitoring option
- Integrated diagnostic tools available
- Air and liquid thermal management options for pack and module cooling
- Emerald™ software including intelligent Automation Language with Script Writer and Automated Load Cycle Importer
- Data Explorer™ post-processing option

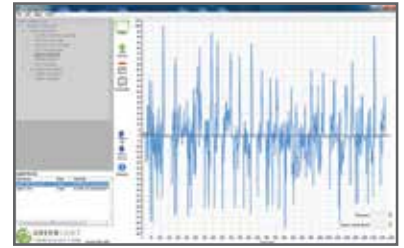
Features

- Fully automated, 24/7 operation
- Drive cycle capable (by table or script)
- Remote access with email alarm notification
- Real time and off-line data management and analysis

BTS Battery Testing



Greenlight's Multi-Channel BTS includes **Emerald™** battery test control software, capable of fully automated testing, remote monitoring and remote control. **Emerald™** Automation Language with Load Cycle Importer software allows users to translate standard or user-generated load cycle test data directly into automated test scripts.



Load Cycle Importer Graph

Specifications

	LOW RANGE	HIGH RANGE
POWER	100W to 4kW	20kW to 500kW regenerative (back to grid)
VOLTAGE	5V to 100V	5V to 1000V
CURRENT	80A to 500A	Max. 200A, 600A, 800A or 1000A
MULTIPLE CHANNELS	Up to 10 channels, non-parallel	Up to 4 channels, parallel capable
SOFTWARE	Emerald™ Battery Test Software	
• Automation Language	√	√
• Script Writer	√	√
• Data Explorer	Optional	Optional
• Data Importer	Optional	Optional
• Remote monitoring and control	Optional	Optional
ENVIRONMENTAL CHAMBER		
temp., pressure and humidity control	Optional	Optional
CURRENT INTERRUPT	√	-
ADDITIONAL I/O	Optional; temperature and pressure monitoring, data acquisition	
CELL VOLTAGE MONITOR	Optional; 1000VDC common mode voltage, +/- 5V per cell, +/- 1mV accuracy, 1000Hz burst mode data acquisition; additional channel types available	

Options

Bidirectional Power Supplies



Cooling Module



Environmental Chamber:



Data Acquisition:



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