

RCV

Multi-Circuit Discharge Testing System

BITRODE

PARTNER IN POWER

Applications

- Reserve Capacity Testing: Perform a constant current discharge to see how long a useful voltage can be maintained on the battery
- Discharge testing

Features & Benefits

Bitrode's model RCV is a low-current life cycle test system for development of primary and rechargeable batteries in various chemistries. Operating from a common microprocessor, multiple circuits in the RCV module can run individual test programs. Additionally, the RCV is designed and built for ease of maintenance and service. The modular construction means that most subassemblies, large or small, remove easily for service outside the cabinet and fast replacement.

Additional features include:

- Configurations for testing to industry standards: IEC, SAE, BCI
- Test control and data management with Bitrode's VisualLCN™ Lab Client software suite
- Parallel circuit operation for greater flexibility in test specification
- Constant current or power control
- Program execution is independent from the PC with VisualLCN™ software
- Remote Binary Protocol via Ethernet connection available for 3rd party software control



General Specifications

Voltage:	1.5-36V
Current:	0-50A (800 in parallel)
Circuits:	up to 16
Accuracy:	±0.1% of FS*
Current Slew Rate:	up to 100A/millisecond
Data Sampling Rate:	up to 10mS



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RCV

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Discharge Testing
System**

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System Options

- Up to three current ranges per circuit
- Temperature, pressure, flow rate, and cell voltage monitoring
- Digital inputs and Digital outputs with function assigned per individual program
- Expression-based program limit conditions
- Internal resistance calculation
- Ramp charge/discharge
- Temperature compensation adjusts voltage per battery temperature
- Constant resistance discharge
- Remote Input Output (RIO) box reduces excessive cable lengths when connecting to remote test stations
- Custom-designed test leads
- Drive Cycle Conversion utility automates test program development from acquired battery usage data



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