DTV

High Current Discharge Battery Testing System

BITRODE
PARTNER IN POWER

Features & Benefits

Bitrode's model DTV is a system designed for testing high current applications. The DTV also supports data collection on a full-range of external inputs for specific laboratory requirements including: Thermocouples, PT-100, high impedance voltage, pressure, and specific gravity.

Additional features include:

- No performance loss under voltage control
- Bipolar capacity for discharging to below zero volts
- Test control and data management with Bitrode's VisuaLCN™ Lab Client software suite
- Constant current, constant power or constant voltage control
- Optional inputs can be assigned to any channel
- Program execution is independent from the PC with VisuaLCN™ software
- Remote Binary Protocol via Ethernet connection available for 3rd party software control
- Discharge power recycled to AC line for cooler, more energy-efficient operation

Applications

- **Cold Crank Testing to industry standards: IEC, SAE, BCI**
- **Discharge capacity performance testing to thousands of amperes**

General Specifications

Voltage:	0-72V
Current:	Up to 3000A up to 12,000A with external PCC
Power:	up to 90kW up to 360kW with external PCC
Accuracy:	±0.1% of FS*
Circuits:	1
Data Sampling Rate:	up to 10ms

*Accuracy values are conservative assuming operation will be through the standard temperature range of 0-40˚ C and RH from 10-90% (non-condensing). Units calibrated and maintained in a temperature and humidity controlled environment can expect an accuracy of 0.02-0.05%FS.

REGISTERED COMPANY ISO 9001

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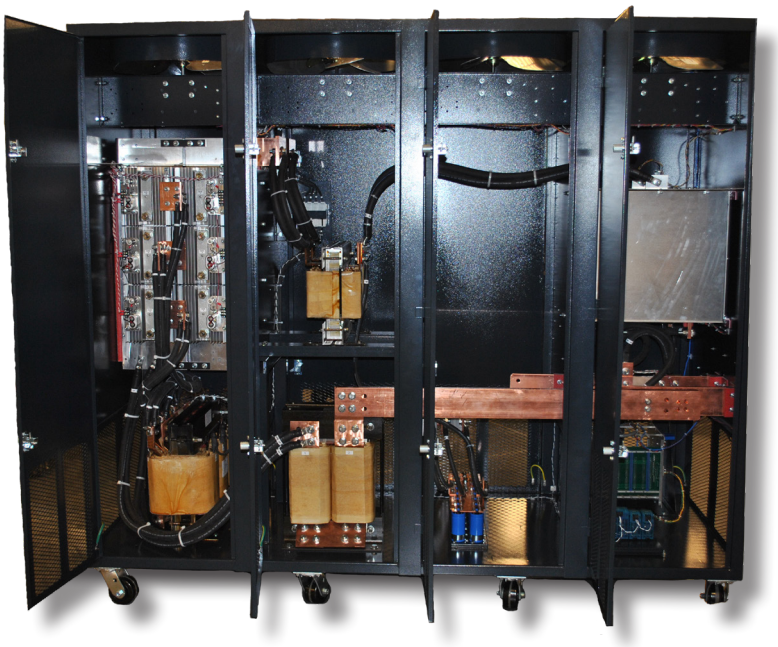
System Options

- 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
- Integration with Battery Management Systems: CAN
- Ramp discharge
- Constant resistance discharge
- Remote Input Output (RIO) Box reduces excessive cable lengths when connecting to remote test stations
- Parallel controller (PCC) can control up to four circuits from separate units for higher power or higher current programs
- LCD display
- Custom-designed test leads



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