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.

**Features & Benefits**

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

**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

**General Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>0-72V</td>
</tr>
<tr>
<td>Current</td>
<td>Up to 3000A</td>
</tr>
<tr>
<td></td>
<td>up to 12,000A with external PCC</td>
</tr>
<tr>
<td>Power</td>
<td>up to 90kW</td>
</tr>
<tr>
<td></td>
<td>up to 360kW with external PCC</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.1% of FS*</td>
</tr>
<tr>
<td>Circuits</td>
<td>1</td>
</tr>
<tr>
<td>Data Sampling Rate</td>
<td>up to 10ms</td>
</tr>
</tbody>
</table>

*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.
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