

VRL VRX

High-Current
Production
Line Testing

Applications

- High rate discharge testing of automotive and commercial batteries
- High current production line testing

Features & Benefits

The Bitrode VRX/VRL family of equipment is designed for high current production line discharge testing of automotive and industrial 6 and 12 volt batteries, allowing manufacturers to test for defects such as poor welds, reversed plates and poorly formed batteries. While they perform the same function, the VRL is manually controlled while the VRX is PLC controlled.

Additional features include:

- Solid state Silicon Controlled Rectifier (SCR) load switching for superior reliability and repeatability
- Units available to discharge at current from 0 up to 1500 or 3000 amperes with voltage control from 0 to 14 volts
- Manual control and monitoring on the Model VRL
- Programmable Logic Control (PLC) interface for Model VRX—stores up to 100 battery test profiles locally, displays up to 10 test results
- Test duration programmable in 0.1 second increments from 0.1 to 9.9 second discharge



General Specifications

Voltage:	20V
Current:	up to 3000A
Circuits:	1
Accuracy:	±1% of FS

BITRODE HEADQUARTERS
9787 Green Park Industrial Drive
St. Louis, Missouri 63123 - USA
tel: +1 636 343-6112
fax: +1 636 343-7473
email: info@bitrode.com

SOVEMA
Via Spagna, 13
37069 Villafranca di Verona - Italy
tel: +39 (045) 6335711
fax: +39 (045) 6303911
email: info@sovema.it

www.bitrode.com



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System Options

- Manual or PLC controlled models available
- Open circuit test and reject for up to 25 volts
- Connection to a Bitrode Model TFX automatic test fixture for unattended high current discharge testing
- Water cooling for heat generating components with automatic over temperature and low water level shutdown control
- Available discharge of 6 or 12 volts
- Single or two step discharge testing
- VisualTFX for shared storage of unlimited number of battery program 'recipes' - multiple test fixtures can use common pool of

General Configurations

The table below provides configurations for our most popular models. If your desired specifications are not listed, please contact us.

Model	Maximum Discharge Capacity	Voltage	Current	Phase	Input Power (Hz)
VRL/VRX1500-220	1500	220	60	3	50
VRL/VRX1500-230	1500	230	60	3	60
VRL/VRX1500-380	1500	380	37	3	50
VRL/VRX1500-460	1500	460	30	3	60
VRL/VRX3000-220	3000	220	100	3	50
VRL/VRX3000-230	3000	230	100	3	60
VRL/VRX3000-380	3000	380	61	3	50
VRL/VRX3000-460	3000	460	50	3	60

*Specifications subject to change without notice.



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