

CDN

High Voltage
Charge/Discharge
Formation

BITRODE

PARTNER IN POWER

Applications

- High voltage formation of stationary and industrial VRLA batteries
- Tackless formation of automotive and industrial plates
- Dry-charge formation

Features & Benefits

Available in a wide range of currents and voltages, the CDN is an economical solution for high voltage formation of stationary and industrial VRLA batteries and tank formation of automotive and industrial plates.

Using Bitrode's three phase silicon-controlled rectifier, multiple circuits can be packaged in a single cabinet for low cost applications. In discharge, a three phase bridge discharges the DC energy back to the AC power line. This feature turns discharge energy into electrical power instead of heat, reducing stress on equipment and on the production formation environment.

Additional Features:

- Charge/Discharge current can be controlled to within $\pm 1\%$ of maximum output
- Constant current, voltage, ampere-hour and power controls
- SCR Technology
- Discharge energy recycled to the AC line for cooler, more economical operation
- Operation via microcontroller and Bitrode's VisualCN™ Formation Client Software
- Polarity reversal for bus bar maintenance
- Modular construction and easy access front and rear panels for maintenance
- Three phase bridge to recycle discharge energy, resulting in cost savings
- Container formation for valve-regulated lead acid batteries

General Specifications

Voltage:	100-550V
Current:	up to 4500A
Circuits:	up to 16
Accuracy:	$\pm 1\%$ FS
Input Power Supply:	3-phase, 50/60 Hz



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System Options

- Cell or Battery Switching Module
- Cell Voltage Monitoring
- Temperature Monitoring
- High impedance reference electrode (100 Mega Ohms @ LSV) for monitoring formation of individual cell elements
- Ramp Charge/Discharge
- Constant Resistance Discharge
- Polarity reversal for tackless formation applications
- Pulse charging capability



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