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*InPOWER*  
 the systems people

## LOW VOLTAGE DISCONNECTS

*InPower LVDs protect your battery's charge by automatically disconnecting non-critical loads.*



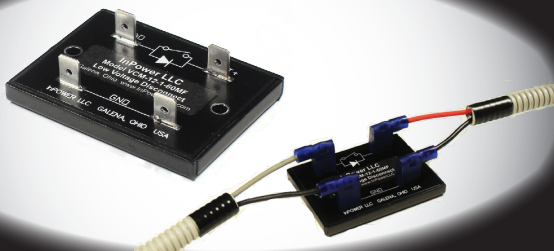
### LVD10 Series

- Available in 100 and 200 amp ratings
- Operates as a LVD and a dc contactor
- Over current and short circuit protected output
- +12 volt control and reset input
- Compact size and sealed construction



### VCM-06 Series

- Timed shut off function
- Critical low voltage immediate shut off
- 15 amp rating with over current protection
- Completely solid state construction
- Small size with relay terminal connections



### VCM-12 Series

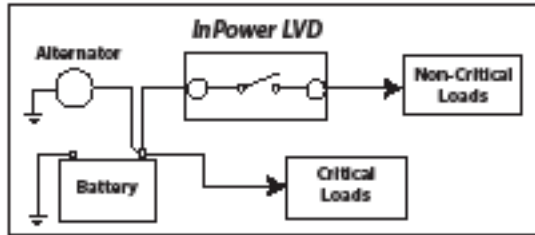
- Four terminals for in-line circuit applications
- Low voltage timed and immediate shut off functions
- 20 amp rating with over current protection
- Completely solid state construction
- Small size and low cost

**SOLUTIONS**  
*you can count on*

## SOLID STATE LOW VOLTAGE DISCONNECTS

InPower provides a comprehensive family of high current solid state low voltage disconnects with built in over current fault protection.

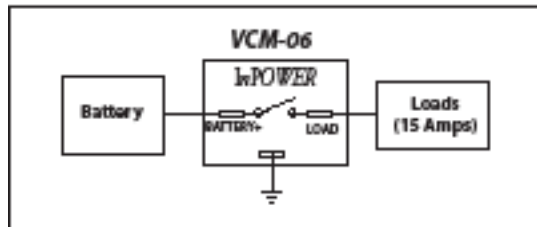
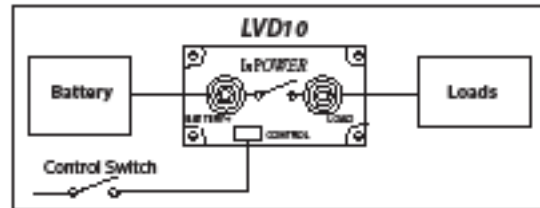
### InPower Low Voltage Disconnects



The purpose of a low voltage disconnect is to sense the vehicle's battery state of charge via voltage measurement and automatically disconnect battery loads when the battery reaches a critical level. By disconnecting battery loads, a sufficient level of charge is maintained to allow restarting the engine. Upon reaching a battery charged state the LVD will reconnect the battery loads.

### LVD10 Series LVD

LVD10 Series are high current solid state low voltage disconnects that are available in 100 amp or 200 amp capacities. They contain a control input that allows them to be used as a remote controlled contactor. These LVD products are sealed and include over current, short circuit and over temperature fault shutdown protection.



### VCM-06 Series LVD

VCM-06 Series LVDs are suited for smaller loads that need to be operated when the ignition switch is turned off. These products contain three voltage setpoints. When the voltage drops below the center setpoint (engine off) a timer is started. When the timer expires the load is shut off. Anytime the battery drops below the lower setpoint the load is shut off immediately. When the voltage increases to the upper setpoint (engine started) the load is reconnected.

### VCM-12 Series LVD

VCM-12 Series LVDs contain three battery voltage setpoints and a shut off timer similar to the InPower VCM-06 Series. Their 4-wire terminal configuration allows easy installation in two conductor cables typically used with 12 volt power point supplies. The VCM-12 LVDs are rated for 20 amps and include over current and short circuit fault shutdown protection.

