

# Low Voltage Disconnects

The Low Voltage Disconnect (LVD) Series is a 100% solid state electronic or electromechanical protection module which disconnects predetermined auxiliary loads from the starting battery bank to assure enough power is left in the batteries for starting. The unit is capable of directly powering loads of up to 100A continuous draw.

The LVD continually senses and monitors battery voltage. During normal operation when the battery is sufficiently charged, the LVD connects the loads. Once the battery voltage reaches the shut off set point, the auxiliary loads are automatically disconnected from the battery(s) preventing further battery drain.

## Features & Benefits

Automatically disconnects non-critical loads from the battery(ies) to prevent excessive battery discharge

Automatically reconnects loads if vehicle is started or battery is recharged

Manual override for connecting or disconnecting during emergencies

Selectable pre-set models available ranging from 9.0V to 12.8V

Audible or visual alarm output activates 1 minute before disconnect

100% Solid-State logic and switching circuitry on most models

Fully protected

Low standby current

## Key Differentiators

Low current draw when disconnected, reducing unwanted power drain on the batteries. Many competitive products use relays that require the contacts be energized to remain open and disconnect the loads.

100A continuous solid state switch eliminates the wear and voltage spikes of relays

Ability to control up to 2 external relays for higher current switching, disconnecting at a higher voltage than the primary output for load shedding.

CAN switching and diagnostics

## Options

Disconnect voltage set point

CAN diagnostics and control

Relay control for secondary circuits

20A electromechanical version w/floating contacts

## Standards & Certifications

CE Mark and E Mark for Selected Models



Model	Disconnect Voltage (V)	Current (A)	Description
130512	Adjustable 9.0 - 12.15	20	Low voltage switch, electromechanical
133121070	12.1	70	Solid-state LVD, $V_{IN}$ and $V_{OUT}$
137121100	12.1	100	Solid-state LVD, Connections with 8mm studs
137123100	12.3	100	Solid-state LVD, Connections with 8mm studs
1381180706	11.8	70	CAN capable / 6 guage wire
1381180708	11.8	70	CAN capable / 8 guage wire

\* Select models only

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Last Revision: 03.02.2020