

RED FLASH™ 12V Low Voltage Disconnect



The Low Voltage Disconnect (LVD) Unit is a low power device that can be used to protect batteries from damage and help extend battery life.

The LVD prevents over-discharge and subsequent damage of batteries, regardless of battery technology.

It is designed to operate on a 12V nominal voltage and has a factory default disconnect voltage of 10.8V. The disconnect voltage is very easy to set up, requiring only an adjustable power supply.

The unit has a very low residual current drain, particularly when compared with other LVD products. The 3 State of Charge LEDs adjust automatically when on load providing an accurate visual indication of remaining battery capacity.

The multi-pole connector provides access to the functions remotely allowing the user to set up off-board switches and LEDs.

It can control currents up to 10A on board and can control an external relay to allow for load currents up to 200A.

The **RED FLASH™** 12V Low Voltage Disconnect unit has the following features:

- Can extend battery life
- Easy Set Up
- 12V Nominal Voltage
- 9.9V-12.8V Adjustable Disconnect Voltage
- Optional Automatic Reconnect
- Very Low Power Drain
- Remote Indication and Operation
- State of Charge Indication
- Lightweight and Compact
- Wide Operating Temperature
- Fully protected against spikes, surges and reverse polarity connection
- Fully Isolated

Specification

RED FLASH™ Low Voltage Disconnect

<p><u>Part Number</u></p>	7853-0001
<p><u>Electrical</u></p> <p>On board Current (Continuous) Off board Current (Continuous) System Voltage Range Default Disconnect Voltage Disconnect Voltage Range Disconnect Delay Current drain Protection</p>	<p>10 Amps 200 Amps 9V to 15V 10.8V 9.9V to 12.8V 10 to 12 seconds 1mA 10A self-resetting fuse at input</p>
<p><u>Indication</u></p> <p>Power LED Push to Test State of Charge LEDs Default State of Charge levels (off load)</p>	<p>Green Green / Yellow / Red 12.8V / 12.4V / 12.0V</p>
<p><u>Connections</u></p> <p>Power Remote Output Remote Outputs Available</p>	<p>4-way Camden electronics terminal blocks 16-way Molex C-grid III connector External relay Push to Test switch All LEDs Remote On and Off switches Auto reconnect</p>
<p><u>On-board Controls</u></p>	<p>On switch Off switch Push to Test switch</p>
<p><u>General</u></p> <p>Operating temperature Storage temperature State of Charge Indication</p>	<p>-10°C to +60°C -40°C to +90°C 3 colour LED display with push to test button</p>
<p><u>Mechanical</u></p> <p>Housing Dimensions Weight</p>	<p>Aluminium casing with four mounting points Length: 129 mm (88 mm Body) Width: 63 mm Height: 27 mm 125 g</p>

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