STANDARD LOW VOLTAGE DISCONNECT
150A, 200A • 12V DC • IP67 • OBSOLETE 2018

Description
Electronically senses battery voltage and conserves starting power. Prolongs battery life by preventing battery damage. Automatically disconnects non-critical loads from a battery when the battery voltage falls below a predefined threshold. Automatically reconnects the loads to the battery when the battery is being charged. Automatically prevents the loads from disconnecting during starting. An optional ignition override input is also provided.

Electronics are sealed to IP67, see Installation Instructions IF-156 for mounting and wiring details.

Features and Benefits
- Overcurrent, short-circuit and over-temperature protections offer safe and reliable operation.
- Eliminates contact wear and extends service life to ≥ 1,000,000 On-Off cycles.
- Draws minimal quiescent current of 2mA.
- Pre-disconnect warning is provided by a visual or audible alarm (sold separately).
- Built-in “snooze timer” allows one hour override (factory programmable).
- Manual override option permits a user to make or break the connection, regardless of the battery voltage. (Switch sold separately).

Specifications Overview
Voltage: 12V
Continuous Current: 48512 – 150A
48510 – 200A
Inrush Current: 500A (for 5 seconds)
Max Quiescent Current: 2mA
Ingress Protection: IP67
Operating Temperature: -40° to +85°C (-40° to +185°F)
Stud Terminals: 5/16-18
Dimensions: 6.0 x 5.15 x 3.0 (152.4 x 130.8 x 76.2)

Web Resources
Download technical resources at: littelfuse.com/StandardLVD

Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>48512</td>
<td>150A 12V</td>
</tr>
<tr>
<td>48510</td>
<td>200A 12V</td>
</tr>
</tbody>
</table>

Wiring Diagram

Datasheet Replaces Hotfeed Number D-614
## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage:</td>
<td>12V</td>
</tr>
<tr>
<td>Continuous Current:</td>
<td>150A or 200A</td>
</tr>
<tr>
<td>Inrush Current:</td>
<td>500A (for 5 seconds)</td>
</tr>
<tr>
<td>Max Quiescent Current:</td>
<td>2mA</td>
</tr>
<tr>
<td>Ingress Protection:</td>
<td>IP67</td>
</tr>
<tr>
<td>Ignition Protection:</td>
<td>Ignition-proof to ISO 8846</td>
</tr>
<tr>
<td>Disconnection:</td>
<td>Disconnects when battery drops below 12.1V for 2 minutes, reconnects when battery meets or exceeds 13.0V for 10 seconds. (Factory programmable)</td>
</tr>
<tr>
<td>Alarm:</td>
<td>Active low, 50mA. Activates 1 minute before disconnect. (Factory programmable)</td>
</tr>
<tr>
<td>Accuracy:</td>
<td>±100mV.</td>
</tr>
</tbody>
</table>

## Dimensions in Inches (millimeters)

- **LOAD**
  - Width: 6.00 [152.40]
  - Height: 0.28 [7.14]

- **BATTERY**
  - Width: 3.00 [76.20]
  - Height: 3.00 [76.20]

- **2.15 [54.61] 4 PL**

- **5/16-18 STUDS**
  - Width: 5.53 [140.45]

---

Visit Littelfuse.com for the most up-to-date product information. Littelfuse products are designed for specific applications and should not be used for any purpose (including, without limitation, automotive applications) not expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse product documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse product documentation.