

DIODE BATTERY ISOLATORS

3-Stud • 36V DC • 70-200A



Description

For vehicles with two batteries, diode battery isolators electrically isolate the batteries to prevent the battery with the higher charge from draining into that with the lower charge. In addition, both batteries can be charged simultaneously from one source.

The amp rating of each item is the maximum alternator rating. Most alternators on new vehicles have an integral electronic voltage regulator that requires the use of the 4-stud battery isolator. The small 4th stud is for connection to a circuit switched by the ignition switch. The newer alternators were first introduced by Delco and are therefore sometimes called 'Delcotron-type alternators'. A 4-stud battery isolator can be used with older pattern alternators (in this case the 4th stud will remain unconnected), but a 3-stud battery isolator cannot be used with the Delcotron-type alternator.

Web Resources

Download 2D print and technical resources at:
littelfuse.com/diodebatteryisolators

Ordering Information

PART NUMBER	DESCRIPTION	AMPERAGE	MAX INPUT CURRENT	VOLTAGE RATING	CIRCUITRY	CONTACTS
48070 *	3-Stud Battery Isolator	70A	70A	36V	3-Stud Solid State	¼" - 20 UNC Tin Plated Steel
48090 *	3-Stud Battery Isolator	90A	90A	36V	3-Stud Solid State	¼" - 20 UNC Tin Plated Steel
48120 *	3-Stud Battery Isolator	140A	140A	36V	3-Stud Solid State	5/16"-18 Tin Plated Steel
48122 *	3-Stud Battery Isolator w/ Ignition Stud	140A	140A	36V	3-Stud Solid State w/ Ignition Circuit	Three 5/16"-18 Tin Plated Steel, One 10-32
48160 *	3-Stud Battery Isolator	200A	200A	36V	3-Stud Solid State	Three 5/16"-18 Tin Plated Steel
48162 *	3-Stud Battery Isolator w/ Ignition Stud	200A	200A	36V	3-Stud Solid State w/ Ignition Circuit	Three 5/16"-18 Tin Plated Steel, One 10-32

* Box and/or Blister Pack Packaging Options Available

Features and Benefits

- Solid state for high reliability
- General purpose Battery Isolators for 12-36V DC negative ground systems
- Electronic components are embedded to give excellent protection from adverse conditions, such as contamination and vibration
- Integral heat sink provides efficient heat dissipation
- Hencol sealed available

Specifications Overview

Voltage Rating:	36V DC
Circuitry:	3-Stud Solid State
Housing:	Aluminum Heatsink

Applications

- Heavy Duty Truck
- Construction
- Emergency Vehicles
- Bus/Transit
- Agriculture

Dimensions in mm

