

Dual Sensing Battery Isolator

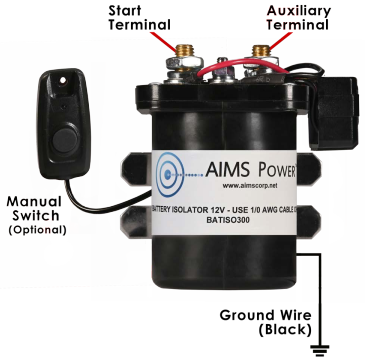


The Dual Battery Isolator is designed specifically for use in multi-battery applications. If the isolator detects that either battery has exceeded 13.2 volts, the isolator will connect them. The benefit of the dual sensing feature allows user to charge the main battery from a solar panel or an external battery charger, on the auxiliary battery, once the auxiliary battery reaches 80% state of charge (13.2V). This ensures you never have a drained starter battery again. The isolator is also automatic and based on voltage, which saves installation time. When the entire battery system drops below 12.7 volts the solenoid opens and isolates the starter battery from the auxiliary battery.

- A safe way to charge your auxiliary battery while driving
- Cost-effective solution against a flat start battery
- The isolator monitors both battery voltages automatically
- The optional Manual Switch allows for manual control, linking the two batteries together with a push of a button. The isolator will manually operate allowing current to flow for 60 seconds without the alternator, even if both batteries are below 12.7V.- Part # BATISOSW

SPECIFICATIONS

PART NUMBER	BATISO300
System voltage	12V
Auto-on voltage	>13.2V
Auto-off voltage	<12.7V
Turn on delay	5 sec
Turn off delay	10 sec
Max continuous current	300 AMP
Standby current	<5mA

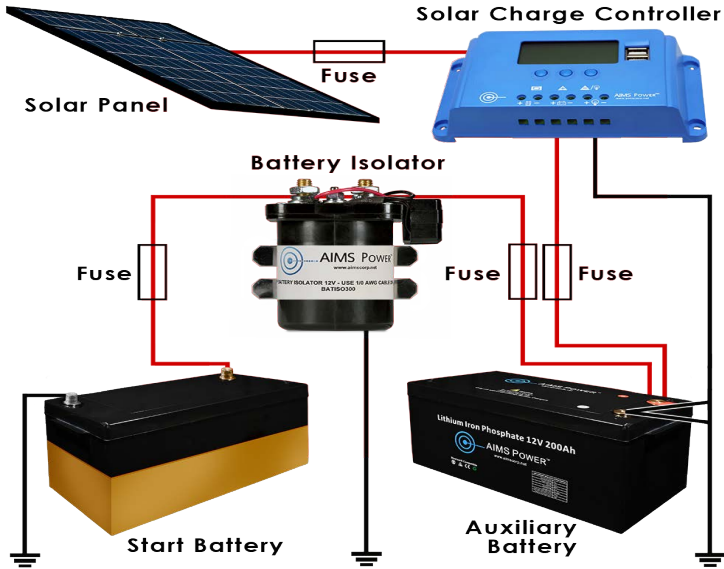


INSTALLATION INSTRUCTIONS

1. Make sure the auxiliary battery negative is properly grounded to the vehicle chassis.
2. Connect the Isolator ground terminal to chassis ground.
 - Remove any paint to ensure a good ground connection. Note: A good ground will ensure correct switching voltage.
3. Connect power from the main battery to the input of the isolator.
 - It is recommended to install a fuse and holder or a circuit breaker to the power wire going from main battery to isolator. Should be rated at 300 amps or less to match battery cables.
4. Connect power from the output of the isolator to the auxiliary battery.
 - It is also recommended to install a fuse and holder or a circuit breaker to the power wire going from the isolator to auxiliary battery. Should be rated at 300 amps or less to match battery cables.
5. Connect the cables in the order shown on the next page.
6. (Optional) Plug in the manual start switch (sold separately) into the 3.5mm jack. To manually operate the isolator, press the manual switch and the isolator will manually operate allowing current to flow for 60 seconds without the alternator. This is true even if both batteries are below 12.7V. **PART #: BATISOSW.**



WIRING DIAGRAM



The Dual Sensing Battery Isolator can use a solar panel or an external battery charger to recharge. Use 300 amp fuse or smaller. Make sure the battery cables are sized for 300 amps. **NOTE:** The AIMS Power isolator may also be used as a standard ignition switch isolator. Simply remove the battery monitor (black box) from the isolator and connect the isolator's input to the ignition.

FAULT SIGNAL

It is normal for the LED to illuminate for a brief time after the vehicle is turned OFF. If there is a fault, the LED on the manual switch is set to indicate fault with a sequence of flickers to notify the user. The LED will flicker in the following sequences:

Error 1	2 flickers	Over-Voltage > 15.5 V
Error 2	3 flickers	Voltage drop < 12.7 V