

Smart Battery Isolator

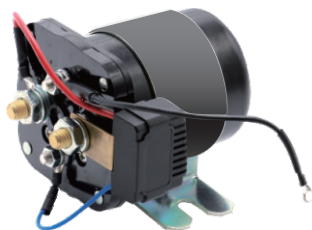


The Smart Battery Isolator is designed specifically for use in multi-battery applications. The AIMS Power isolator primarily monitors the main starter battery voltage. Once either battery voltage reaches 13.2 volts, the solenoid automatically connects the auxiliary battery to the charging system. When the entire battery system drops below 12.7 volts the solenoid opens and isolates the starter battery from the auxiliary battery. This ensures you never have a drained starter battery again.

- A safe way to charge your auxiliary battery while driving
- Cost-effective protection against a flat start battery
- The Smart Battery Isolator monitors both battery voltages
- This optional Smart Switch allows for manual control linking two batteries together with a push of a button for 60 seconds

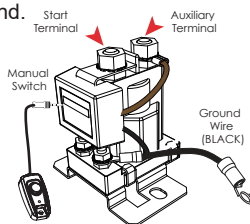
SPECIFICATIONS

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



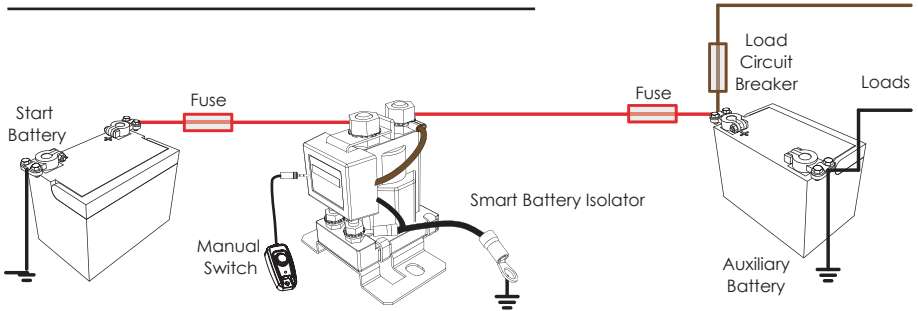
INSTALLATION INSTRUCTIONS

1. Make sure the auxiliary battery negative is properly grounded to the vehicle chassis.
2. Connect the Smart Battery 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 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 secondary 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 Smart Battery 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.**



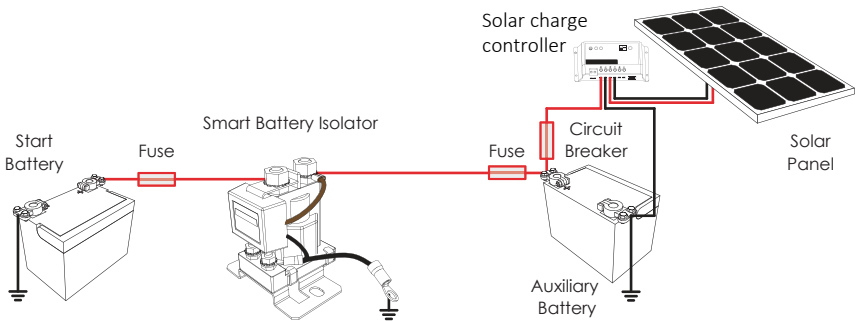
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STANDARD WIRING DIAGRAMS



DUAL SENSING SMART BATTERY ISOLATOR

Dual Sensing Smart Battery Isolator monitors both the start battery and the auxiliary. If the unit detects that either battery has exceeded 13.2 volts, then the isolator will connect them. The benefit of the dual control enables the user to charge the main battery from a solar panel or battery charger on the auxiliary battery. **NOTE:** Our smart isolator may also be used as a standard ignition switch isolator. Simply remove the smart battery monitor (black box) from the isolator and connect the isolator input to the ignition.



FAULT INDICATION

The LED may stay ON for a period after the vehicle is turned OFF. Should a fault occur, the LED on the manual switch is set to notify the operator of the fault. The LED will flash with the following sequences:

Code 1	2 flashes	Over-Voltage > 15.5 V
Code 2	3 flashes	Voltage drop < 12.7 V