

The Dual Battery Sensing Isolator is designed for multi-battery vehicle systems, automatically managing charging between the starting and auxiliary batteries. The isolator continuously monitors both battery voltages. When either battery reaches 13.2V, the isolator connects them, allowing charging from the alternator, solar panels, or external battery chargers. This dual-sensing capability allows the main battery to be charged from the auxiliary battery once charging voltage is achieved. When system voltage drops below 12.7V, the isolator automatically separates the batteries, protecting the starter battery from discharge and ensuring reliable engine starting.

Key Benefits

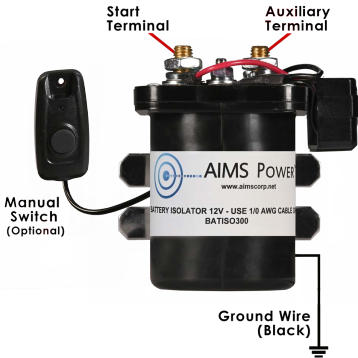
- Safe way to charge an auxiliary battery while driving
- Prevents a dead starter battery
- Automatic voltage-based operation
- No ignition connection required
- Faster, simplified installation
- Ideal for work trucks, RVs, fleet vehicles, and mobile power systems

Optional Manual Override — Part # BATISOSW

Allows temporary manual battery linking for 60 seconds, even without alternator input, providing emergency starting capability or controlled power transfer when both batteries are below 12.7V. Backed by a 3 year warranty and lifetime tech support.

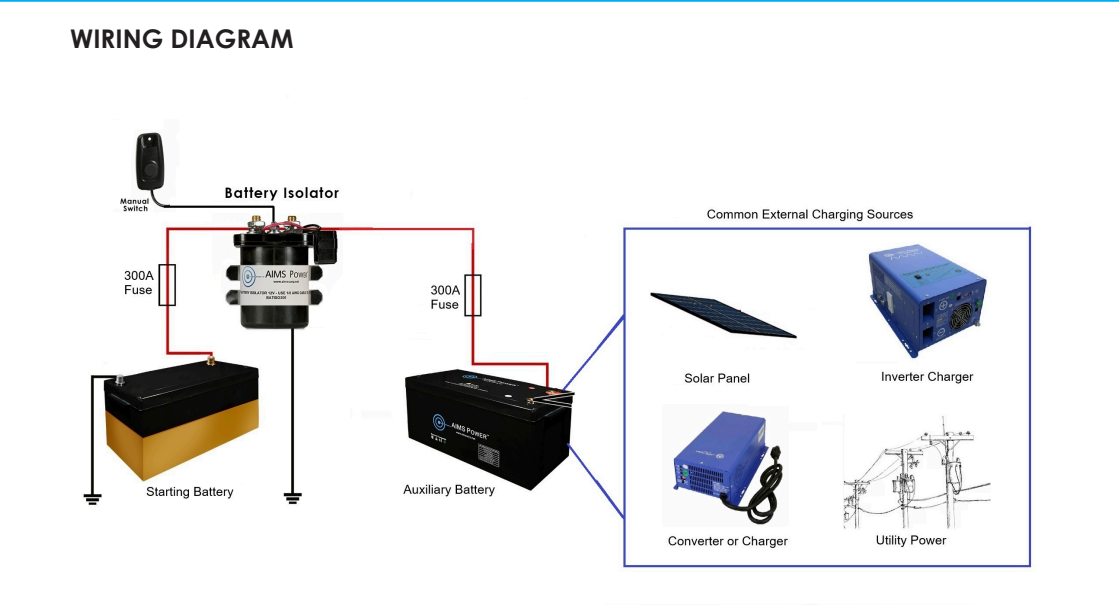
SPECIFICATIONS

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. It 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. It 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.



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.



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