

Key Features

- Three terminal design, allowing protection of both chassis and auxiliary batteries
- Efficient design requiring no large heat sinks - only a supplied thermal transfer pad
- Allows auxiliary battery jump start
- Sealed construction against moisture and dust
- Brass contact pads provide low contact resistance
- Customized low voltage cut offs available
- Made in the USA

Technical Description

The Auxiliary Battery Optimizer (ABO) is a patented and patent-pending next-generation auxiliary battery control module, combining the features of an auxiliary battery switch (ABS) with those of an auxiliary battery low voltage disconnect (LVD).

ABS + LVD = ABO

Conventional Auxiliary Battery Switches and Isolators

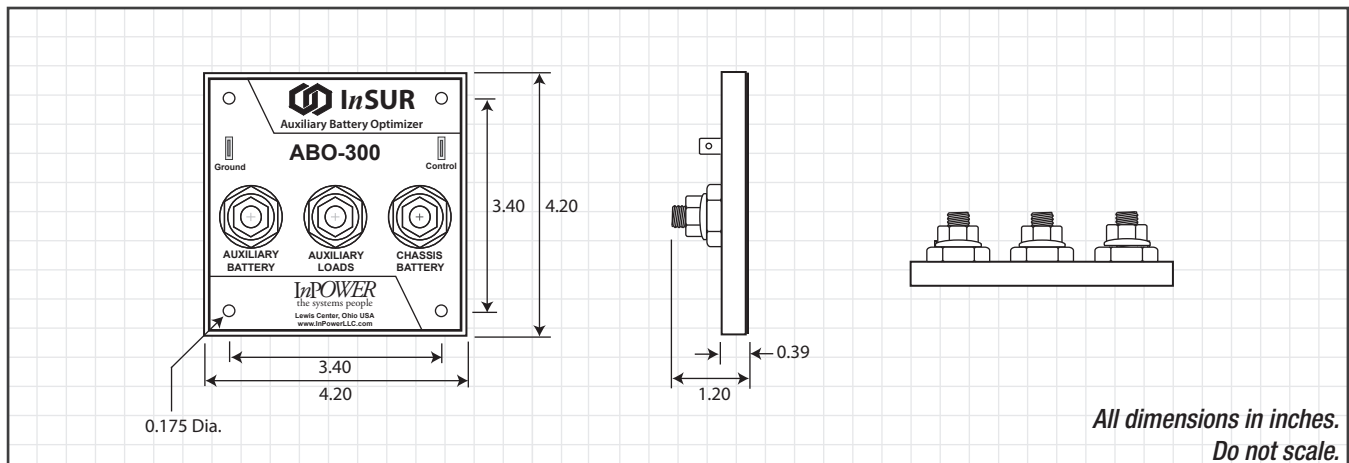
Traditionally, the auxiliary battery is connected to the vehicle's chassis battery through a two-terminal auxiliary battery switch, allowing the auxiliary battery to be charged by the vehicle, while preventing the auxiliary equipment from discharging the chassis battery. Since auxiliary loads are connected directly to the auxiliary battery, the auxiliary battery may be excessively discharged by the loads, reducing battery life.

Auxiliary Battery Optimizer (ABO)

The Auxiliary Battery Optimizer is a three terminal device where one terminal connects to the chassis battery, a second terminal connects to the auxiliary battery and a third, center terminal connects to the auxiliary loads. The ABO thus protects both the chassis and the auxiliary batteries from excessive discharge, extending the service life of both batteries.

The ABO is a highly efficient design, requiring no massive heatsinks. It is compact and sealed against moisture and debris. It also comes equipped with a manual override, allowing the auxiliary battery to be used to jump start the vehicle.

Mechanical Drawing



Specifications

Model:	<u>ABO-150</u>	<u>ABO-200</u>
Maximum Continuous Current:	150 amps	200 amps
Maximum Surge Current:	500 amps	1000 amps
Alternator Rating:	150-185 amps	185-250 amps
Over-current Trip:	100% to 110% of continuous current rating for 500 milliseconds	
Logic Power Current Draw:	<7 milliamps average	
Aux. Battery Low Voltage Disconnect:	<+11 volts	
Chassis Battery Low Voltage Disconnect:	On: >+12.9 volts; Off: <12.8 volts	
Power Terminals:	3 x 3/8-16 stainless steel with stainless steel locking nuts	
Power Terminal Torque:	10 to 15 lb-ft	
Ground Terminal:	1/4 inch male push-on terminal	
Control Terminal:	1/4 inch male push-on terminal	
Control Input:	On: >4.0 V; Off: <2 V; Override Input. Closes switch A and B when activated.	
Weight:	0.7 lbs	
Dimensions:	4.20 W x 4.20 L x 1.04 H (inches)	

System Drawing

