



### Technical Description

InPower's ABS2 Series of Auxiliary Battery Switches are the ideal solution for charging and isolating an auxiliary battery from a vehicle's chassis battery and alternator. InPower's ABS2 Series is designed to replace outmoded battery isolators and unreliable mechanical battery separators.

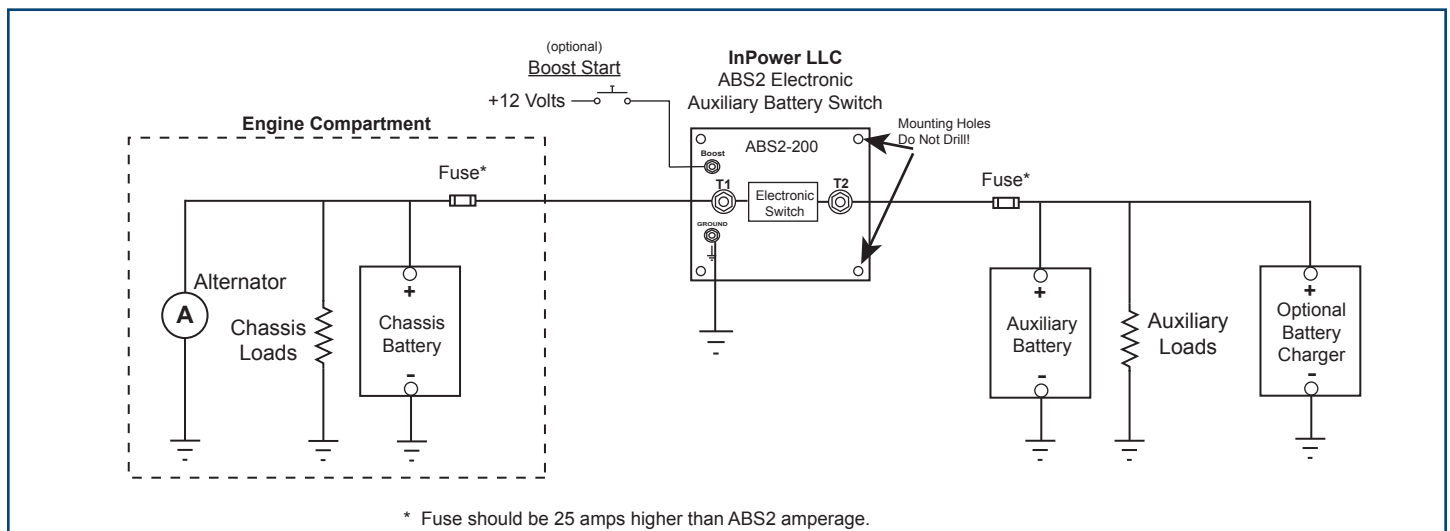
The ABS2 uses InPower's proven patented solid-state contactor technology, incorporating sophisticated microprocessor algorithms to monitor over-current and under-voltage sensing.

The auxiliary battery is charged from the chassis battery and alternator, while the chassis battery is protected from auxiliary battery load discharge. Since the ABS2 is bidirectional, a charging device (such as a battery charger or genset) connected to the auxiliary battery can also supply charging current to the chassis battery when needed. A "boost start" feature allows both the auxiliary and chassis batteries to supply current to aid engine starting.

InPower's ABS2 Auxiliary Battery Switches are available in 100, 150, 175 and 200 amp models. To properly size your ABS2, first determine how much extra current is available from the chassis alternator. This is the maximum alternator output current less the minimum chassis load current. The difference is the maximum available auxiliary battery charging current. Select an ABS2 model with a capacity greater than this current.

- *Superb Auxiliary Battery Isolation*
- *Bidirectional Charging*
- *Boost start the vehicle from the auxiliary battery if the chassis battery voltage is low*
- *Solid state - no moving parts*
- *Extremely efficient - No need for a massive heat sink*
- *Over-current protection*

### ABS2 System Diagram



## Specifications

Maximum Current Rating: ABS2-100 100 Amps    ABS2-150 150 Amps    ABS2-175 175 Amps    ABS2-200 200 Amps

Logic Power Current: 5 milliamps

Operating Voltage Range: +3.0 to +18.0 Volts

Over Current Trip: 100% to 110% for 500 Milliseconds

Weight: 0.60 lbs

Dimensions: 4.15 inches W x 4.15 inches L x 1.27 inches H

Power Terminals: 3/8 - 16 stainless steel, with stainless steel locking nuts

Boost/Ground Terminals: Ground stud for connection

Ground Connection: Ground stud for connection

Power Terminal Torque: 10 to 15 foot pounds

## Ordering Guide

Model	Description
ABS2-100	Auxiliary Battery Switch, 100 amps
ABS2-150	Auxiliary Battery Switch, 150 amps
ABS2-175	Auxiliary Battery Switch, 175 amps
ABS2-200	Auxiliary Battery Switch, 200 amps
TB28-2	Terminal Boot for 8 - 2 AWG cable
TB28-3	Terminal Boot for 2 - 2/0 AWG cable

## Mechanical Drawing

