Automatic 200 Amp Programmable Auxiliary Battery Switch Models: ABS3-200A and ABS3-200B



- Ideal Auxiliary Battery Isolation
- · Bidirectional Charging
- · LED Indicator Switch Status (On/Off)
- 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, Over-Voltage, and Over-Temperature protection

ABS3 System Diagram

InPower LLC ABS3 Electronic Auxiliary Battery Switch Application User () ABS3-200A റ 0 **Engine Compartment** Supplied Lugs BAT -BAT 2 Fuse* Fuse -Alternator 000 Mountina А ≶ Ontiona Holes Auxiliary Chassis Battery O InPOWE Do Not Drill Batter Battery Out! Charg Chassis Auxiliary Loads Loads +12 V Optional Boost Switch *Fuse should sized appropriately for wire gage and rating. For ABS3-200, 225 Amps minimum size required.



Technical Description

InPower's ABS3 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 ABS3 Series replaces outmoded battery isolators and unreliable mechanical battery separators. The ABS3 uses proven patented solid-state contactor technology and patented ultra-cool power terminal technology.

Sophisticated microprocessor algorithms monitor over-current, over-voltage, under-voltage, and over-temperature conditions.

The auxiliary battery is charged from the chassis battery and alternator while the chassis battery is protected from auxiliary battery load discharge. Since the ABS3 is bidirectional, a charging device (such as a battery charger or genset) that is connected to the auxiliary battery will also supply charging current to the chassis battery. (See ABS3 Owner's Manual OM-215)

Optionally connecting 12 volts to the ABS3 input control enables the "boost start" feature. This feature allows both the auxiliary and chassis batteries to supply engine starting current. The "boost start" can be made automatic by connecting the input to the engine start signal.

InPower's ABS3 200 Amp Auxiliary Battery Switches are available in 2 and 4 Lug models. The 4 Lug model allows the ABS3 to serve as a high current junction block.

In addition, the 4 Lug model allows parallel power cabling between the auxiliary and chassis batteries. Parallel power cabling significantly reduces overall cable cost and increases wiring efficiency. (See White Paper 1.042.HCC)



4 Lug 200A Amp



Automatic 200 Amp Programable Auxiliary Battery Switch Models: ABS3-200A and ABS3-200B

Specifications

Maximum Current Rating: Standby Current: Operating Voltage Range: Over-Current Trip: Over Temp Shutdown: Shutdown Restart: ABS3-200A

200 Amps

3.8 milliamps

+7.0 to +18.0 Volts

> 185° F (> 85° C)

Automatic Clear

ABS3-200B

200 Amps

205 Amps +/- 2 amps (for 1 Sec)

(Temp and Fault) (after 30 Sec)

ON or OFF (Status of Switch)

-40° to +185° F (-40° to +85° C)

LED (ON/OFF): Temperature Range:

Mechanical Drawing

<u>Mechanical</u>

Weight:	0.40 lbs
Dimensions:	4.0" W x 4.0"L x 1.2"H
Power Terminals:	3/8 - 16 Brass Bolts with Copper
	Washers
Boost/Ground Terminals:	8-32 4-5 Inch Pounds
Ground Connection:	8-32 Ground stud for connection
Power Terminal Torque:	10 to 15 Foot Pounds
Designed to IP67	
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Ordering Guide

	<u>2 Lug</u>	<u>4 Lug</u>
200 Amp Auxiliary Battery Switch	ABS3-200A	ABS3-200B



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