200 Amp ABS3 Auxilliary Battery Switch Model: ABS3-200A



Key Features

- Intelligent Auxilliary Battery Switch with dual voltage, dual current, and temperature integrated monitoring and control.
- All Solid State Surface Mount design with integrated metal heat pipe technology.
- Ultra-efficient, Ultra-reliable design
- Short Circuit, Overload, and Over-Temperature protected
- Reverse Battery Protection
- Bi-Directional Charging
- Designed to Waterproof IP67
- Proudly designed and made in the USA
- Order ABS3-200B for termination of more wires with the 4 Lug Version.

Technical Description

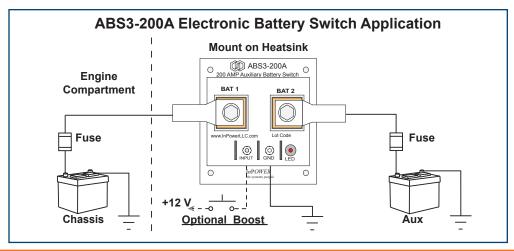
InPower's ABS3 Series of 200 Amp continuous current Auxiliary Battery Switches are the ideal solution for charging and isolating an auxiliary battery from a vehicle's chassis battery and alternator. InPower's ABS3 Series is designed to replace outmoded battery isolators and unreliable mechanical battery separators.

The ABS3 uses InPower's advanced patented and patent pending solid-state contactor technology, incorporating sophisticated microprocessor algorithms to monitor overcurrent, over-temperature, 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 ABS3 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.

The ABS3-200 digitally monitors both current and voltage of the BAT1 and BAT 2 Battery connections. This monitoring allows for precise management of both the voltages and currents for the Chassis and Auxilliary Batteries optimum system performance.

InPower's advanced efficient design has switch on resistance that is less than 670 micro-ohms (0.000670 ohm), yielding unit design capabilities that are unmatched in the marketplace.



ABS3-200A System Diagram





Product Data Sheet Lake-View Electronics Corp. Phone: 1-800-686-8439 Exar262.375.0109

200 Amp ABS3 Auxilliary Battery Switch

Model: ABS3-200A

Specifications

Current Rating: Overcurrent Protection Trip: Overcurrent Reset: 200 Amps Continuous See *Current Trip Profile* figure Module will Reset 30 Sec after Fault

Manual/Boost Operation:

Momentarily applying +12Vdc to INPUT terminal will cause the Module to turn ON if BAT 1 or BAT 2 Voltage is > 7.0Vdc

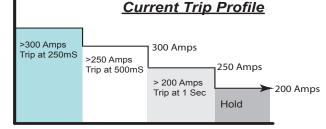
Automatic Operation:

- Module will automatically turn **ON** when battery voltages on either BAT 1 or BAT 2 is >13.5Vdc for > 10 seconds.
- Module will automatically turn OFF when battery voltages on BAT 1 and BAT 2 are <12.80Vdc for > 10 seconds.

Temperature Range: Over Temperature Shutdown:

Voltage Range: Standby Current: Environmental: -40 to +85 degrees Celsius >85 degrees Celsius

+7.0 to +18.0 Volts <3.8mA Designed to meet IP67



Physical Specifications

Power Terminals: Power Terminal Bolts:

Power Terminal Torque: Ground/Input Terminals:

Weight: Dimensions:

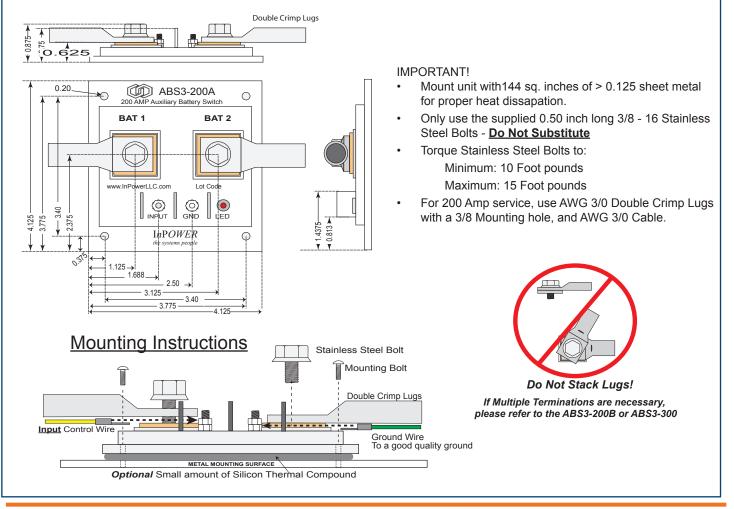
Mounting Screws (User Provided):

Engineered Brass Bus Bar Steel Hex Bolt <u>(No Substitutions)</u> 10 to 15 ft-lb

8/32 Screw Terminal with Brass Nuts (4 to 5 Inch Lbs) 0.25 lbs 4.00 inches W x 4.00 inches L x 1.20 inches H

#8-32 (4 to 5 Inch Pounds)

Mechanical Drawing



Electrical Systems Solutions

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