

Great spot to be... unless you have a flat battery

THE POWER OF

REDARC

The REDARC Smart Start® SBI is a microprocessor controlled, smart battery isolator. It is designed to be used in multi-battery applications as a solenoid priority system to protect the start battery from excessive discharge, while allowing the auxiliary battery to supply non-essential loads.

The REDARC Smart Start® SBI is Australia's most trusted dual battery isolator, used by 4WD clubs throughout Australia.

Look at all the benefits...

- Charge your auxiliary battery whilst driving
- Cost-effective protection against a flat start battery
- A safe way to charge your auxiliary battery
- Compact in size and easy to install
- Power-saving technology



MADE IN AUSTRALIA



Smart Start® SBI Battery Isolators

Designed primarily for use in 4WD and commercial vehicles with a dual battery setup, the Smart Start® SBI ensures that a low charge in the secondary battery won't drain the primary battery.

It is available in four models; 12 or 24 volt DC incorporating 100 or 200 amp continuous ratings. The 200 amp models are designed for extremely heavy-duty operations, as found in industrial and mining situations

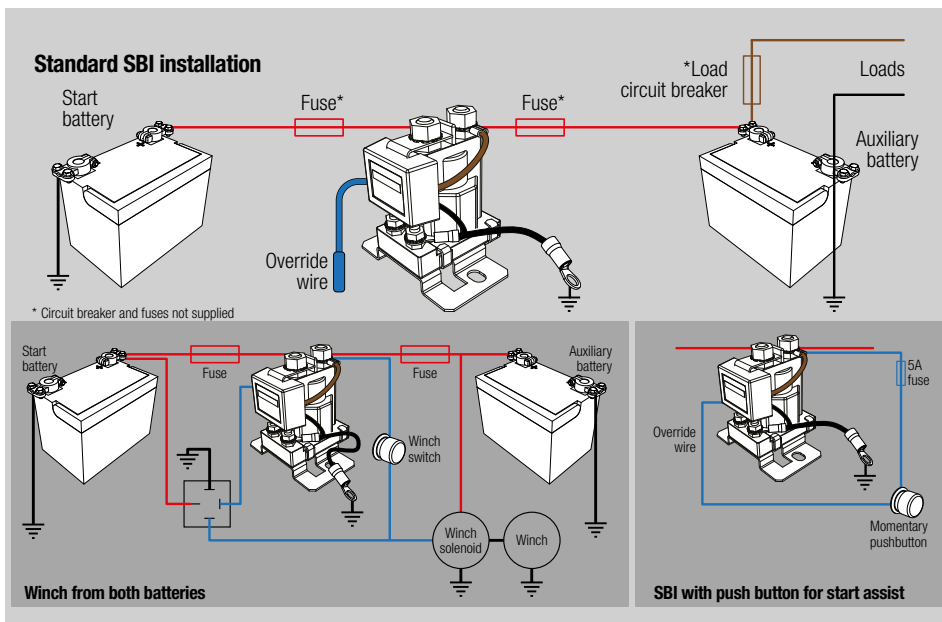
The Smart Start® SBI monitors the start battery and the charging system. When the start battery reaches 13.2 volts on a 12 volt system (26.4 volts on a 24 volt system) the solenoid will connect the auxiliary battery to the charging system. Once the engine has been turned off the Smart Start® SBI monitors the start battery voltage and, when this drops below 12.7 volts on a 12 volt system (25.4 volts on a 24 volt system), the solenoid will turn off, isolating the start battery from the auxiliary battery.

The Smart Start® SBI features sophisticated fault detection and LED indication of operation to warn the user of faults that include over-voltage, voltage drop and excessive current draw conditions. It also features power saving technology. This means the unit will only draw approximately 120 milliamps when on and generate less heat allowing it to operate at a much cooler temperature.

The Smart Start® SBI is better than a diode battery isolator due to the voltage drop associated with diode type isolation.

The solenoid features silver contacts for longer life and is suitable for marine applications.

The Smart Start® SBI incorporates electronic components that will prevent the solenoid from generating high voltage transients making it ideal for use on modern vehicles fitted with computer control systems.



Specifications

Part number	SBI12 SBI12D	SBI24 SBI24D	SBI212 SBI212D	SBI224 SBI224D	SBI12-BLD	SBI12-LLD
Turn-on voltage	13.2V	26.4V	13.2V	26.4V	10.2V	11.0V
Turn-off voltage	12.7V	25.4V	12.7V	25.4V	10.0V	10.5V
Continuous load rating	100A	100A	200A	200A	100A	100A
Inrush load rating	400A	400A	600A	600A	400A	400A
Standby current	<5mA	<5mA	<5mA	<5mA	<5mA	<5mA
Dimensions	75x70 x80mm	75x 70 x80mm	90x 95 x100mm	90x95 x100mm	75x70 x80mm	75x70 x80mm
Weight	200g	200g	600g	600g	200g	200g

Fuse size recommendations

	Fuse recommended for pushbutton override	Fuse recommended for no override
SBI12/SBI24	100 amps	60 amps
SBI212/SBI224	200 amps	120 amps

Load Disconnect Controllers

REDARC have two Load Disconnect Controllers for use in LiFePO₄ auxiliary battery installations:

- SBI12-BLD for BMS load disconnect
- SBI12-LLD for lithium load disconnect



Dual sensing Smart Start® models

SBIXXD models isolate the start and auxiliary batteries when the auxiliary battery may also be charged by an external source, like solar.

They allow the start battery to be charged by the external source once the auxiliary battery reaches 13.2 volts - useful to top up the start battery from a solar charge source or an external AC battery charger connected to the house or auxiliary battery. They operate as standard SBIs when the start battery terminal of the SBI receives more than 13.2 volts (12V system) or 26.4 volts (24V system).



Smart Start® dual battery isolator and wiring kit

The Smart Start® Dual Battery Isolator and Wiring Kit (part number SBI12KIT) has everything needed to install a Smart Start® Dual Battery Isolator including the Smart Start® itself. It requires no crimping or soldering, it's just plug and play. The SBI12KIT features high quality MIDI 60 amp fuses and MTA fuse holders with the corresponding ring terminals already attached to the wires.



Visit redarc.com.au for more information. SBI Smart Battery Isolators are available at your nearest auto electrician or 4WD specialty store.

Want to know more?

Scan this QR code with your smartphone to go to the Redarc website



REDARC Electronics

ABN 77 136 785 092

power@redarc.com.au

23 Brodie Road (North)
Lonsdale, South Australia
Australia 5160

Australia

Phone (08) 8322 4848

Fax (08) 8387 2889

International

Phone +61 8 8322 4848

Fax +61 8 8387 2889

Details and specifications are subject to change without notice.

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