

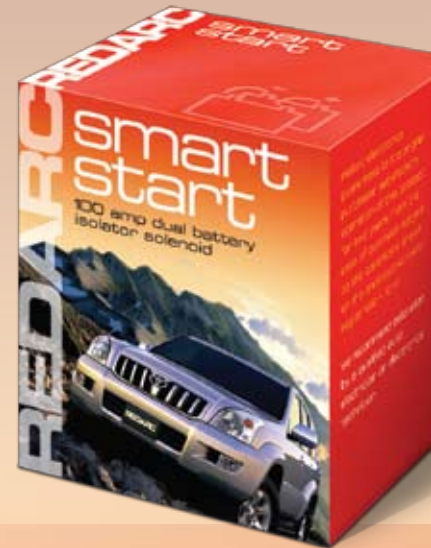
# Great spot to be... unless you have a flat battery.

The Redarc SmartStart is a microprocessor-controlled battery isolator designed for use in multi-battery applications as a solenoid priority system, protecting the start battery from excessive discharge, whilst allowing the auxiliary battery to supply non-essential loads.

The Redarc SmartStart is designed primarily for use in 4WD and commercial vehicles and is available in four models; 12V DC or 24V DC incorporating 100A or 200A continuous ratings. The 200A models are designed for extremely heavy-duty operations.

## Primary benefits

- Compact in size and easy to install
- Cost-effective insurance against a flat battery
- Smarter than a continuous duty solenoid
- Silver contacts for longer life
- Suitable for marine applications
- LED lights when the solenoid is activated
- Used by 4WD clubs throughout Australia
- Fully surge-protected
- Two year warranty



# REDARC

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The SmartStart monitors the start battery voltage and, when this drops below 12.5V (on a 12V system), the solenoid opens, isolating the start battery from the auxiliary battery.

When the start battery reaches 13.2V it reconnects the auxiliary battery to the charging system.

For added protection SmartStart will disconnect should the start battery exceed 15.5V, protecting the auxiliary battery.

The SmartStart is ideal for installations that cannot tolerate the voltage drop associated with diode battery isolators.

The SmartStart can be used with dissimilar batteries. Many users successfully operate their battery system with a standard cranking battery as main and a deep cycle battery as auxiliary.

## SmartStart frequently asked questions

### Is the unit protected against voltage spikes?

Yes. The unit incorporates components which prevent the solenoid from generating high voltage transients when being turned on and off.

### Will the contacts tarnish due to moisture when the SmartStart is used in tropical climates?

No. Spraying the unit with a good grade silicone sealant at installation will assist to ensure total protection.

### Are the voltage limits and time delay settings customisable?

Yes. Call us for further information on what customisation is possible.

### Is the Redarc SmartStart suitable for use on modern vehicles fitted with the latest alternators using smart electronics?

Yes. Many users owning current model 4WDs have bought and used the SmartStart with the product working exactly as designed.

### Can a remote indicator on the dash show when the solenoid is activated?

Yes. You can wire up an LED with series resistor.

### Can an override switch be fitted to the dash to allow the auxiliary battery to be joined to the start battery to assist with starting?

Yes. The Redarc SmartStart has an additional input (blue wire) which can be used to override the voltage sensing feature for emergency starting. This input may be temporarily connected to +12V (or +24V) from either the start or the auxiliary battery to turn the solenoid on.

### Can I leave the SmartStart connected if a trailer or caravan is not hooked up to the towing vehicle?

Yes. The SmartStart will not be affected by having no auxiliary battery connected.

### Can I use the SmartStart to control a load (e.g., fridge) without using an auxiliary battery?

Yes. You can use the Smart Start to switch an auxiliary load (e.g. fridge). The Smart Start will power the fridge until the voltage falls below 12.5V, isolating the start battery. The Smart Start will then power up the fridge when the voltage, in the start battery, rises above 13.2V.

### Does the internal LED illuminate when I use the external override switch?

No. The internal LED is turned on by the microprocessor inside the control box.

### Can an external battery charger or solar panel be connected to the auxiliary battery?

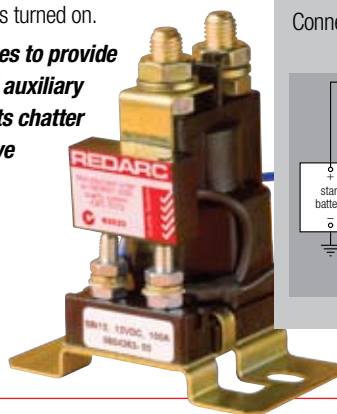
Yes. A battery charger or solar panel will continue to charge the auxiliary battery.

### Can I use my SmartStart to winch off both batteries?

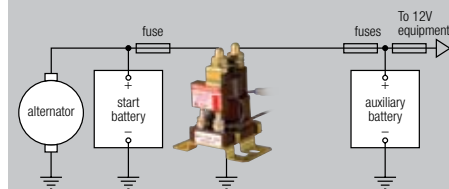
Yes. The SmartStart can be wired to connect both batteries when the winch is turned on.

### When the solenoid closes to provide charge to a discharged auxiliary battery, will the contacts chatter and not provide effective charge to the auxiliary battery?

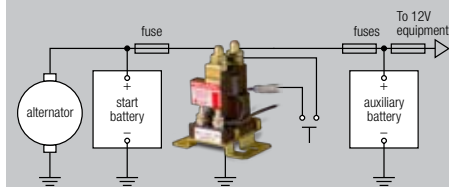
No. There is a time delay between turn-on and turn-off built in to prevent that occurring.



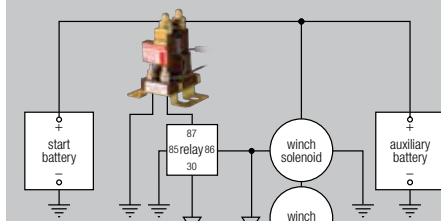
SmartStart standard installation



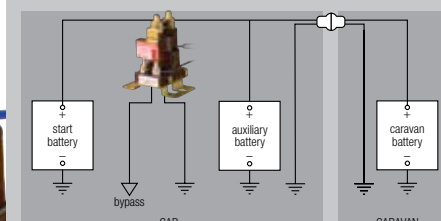
Adding an override switch



Using both batteries to run a winch



Connecting a caravan



Part number	Voltage range	Continuous load rating	Off/on Volts	Inrush load rating	Dimensions L x W x H	Approx weight
<b>SBI12</b>	9-15V	100A	12.5/13.2V	400A	75mm x 70mm x 80mm	300g
<b>SBI24</b>	18-30V	100A	25.0/26.4V	400A	75mm x 70mm x 80mm	300g
<b>SBI212</b>	9-15V	200A	12.5/13.2V	600A	90mm x 95mm x 100mm	800g
<b>SBI224</b>	18-30V	200A	25.0/26.4V	600A	90mm x 95mm x 100mm	800g

See the Redarc SmartStart at your nearest automotive parts dealer



Quality Endorsed Company  
GECS378  
ISO 9001:2000

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