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.

The Redarc SmartStart® is Australia's most trusted dual battery isolator and is used by 4WD clubs throughout Australia.

Primary benefits

- Compact in size and easy to install
- Cost-effective protection against a flat battery
- Smarter than a continuous duty solenoid
- Silver contacts for longer life
- Power saving technology
- Cooler operating temperature
- Only draws approximately0.15A when engaged
- Fault indication
- LED lights when the solenoid is activated
- Fully surge-protected
- Two year warranty





The SmartStart® monitors the start battery voltage and when the start battery reaches 13.2V (26.4V for a 24V system) the SmartStart® connects the auxiliary battery to the charging system.

When the system voltage drops below 12.7V (25.4V) the solenoid opens isolating the start battery from the auxiliary battery.

The SmartStart® features sophisticated fault detection and indication to warn the user of faults including overvoltage, voltage drop and excessive current draw conditions

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

The SmartStart® can be used with dissimilar battery types. 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

Does the unit have surge or spike protection?

Yes. The unit incorporates components which prevent the solenoid from generating high voltage transients.

Are the voltage limits and time delay settings customisable?

Yes. Call Redarc 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 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 (+24V) from 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 not having an 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 SmartStart® to switch an auxiliary load (e.g. fridge). The SmartStart® will power the fridge until the voltage falls below 12.7V (25.4V), isolating the start battery. The SmartStart® will then power up the fridge when the voltage in the start battery rises above 13.2V (26.4V).

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

Yes. The internal LED is turned on by the microprocessor inside the control box, whether by voltage or over-ride.

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

Yes. You can wire up an LED.

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

Yes, but if the battery charger or solar panel is connected whilst the SmartStart® is still engaged, the SmartStart® will stay engaged and both batteries will receive charge.

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

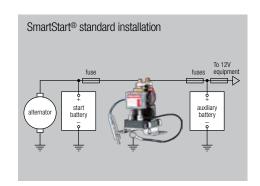
Yes. The SmartStart® can be wired to connect both batteries when the winch is turned on.

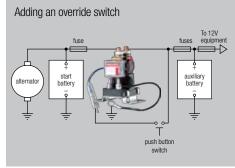
When the solenoid closes to provide charge to a discharged auxiliary battery, will the contacts chatter and not provide effective charge to the auxiliary battery?

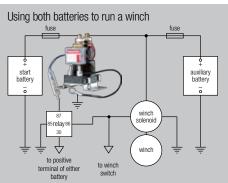
No. There is a time delay between turnon and turn-off built in to prevent that occurring.

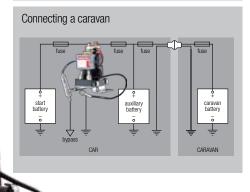
Will the contacts tarnish due to moisture when the SmartStart® is used in tropical climates?

No. If the SmartStart® is sprayed with a good grade silicon sealant the contacts will not be exposed to moisture.









number	voltage	load rating	Volts	load rating	LxWxH	Approx weight
SBI12	12V	100A	12.7/13.2V	400A	75mm x 70mm x 80mm	300g
SBI24	24V	100A	25.4/26.4V	400A	75mm x 70mm x 80mm	300g
SBI212	12V	200A	12.7/13.2V	600A	90mm x 95mm x 100mm	800g
SBI224	24V	200A	25.4/26.4V	600A	90mm x 95mm x 100mm	800g

See the Redarc SmartStart® at your nearest automotive parts dealer



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