



10 Amp Solar Controller

Maximum capacity of 10 Amps
or 150 Watts from solar array

Cut-In Voltage: 13 Volts

Cut-Out Voltage: 14.2 Volts



Please note:

A fully charged 12 volt battery has a voltage higher than 12 volts. Never deeply discharge your battery; never let your battery voltage pass below 11 volts. It will cause permanent damage to the battery. Use a DMM (Digital Multi-Meter) to measure your battery's voltage.

Important: Please read the instructions before operating and before and during the use of this product.

- It is important to observe and follow industry standards and manufacturer's safety procedures when working around batteries and other electrical equipment.
- To reduce the risk of electrical sparking when installing solar chargers, please use a thick opaque fabric to cover the panels to disable the panels from producing a charge.
- Be sure that you are making connections in a well-ventilated area, free from flammable gases or vapors.
- This product is designed to be used in 12 volt configurations only.
- This product is designed to receive charge from 12 volt solar electric panels only.
- **DO NOT** attempt to recharge *NON-RECHARGEABLE* batteries, as an example niMh batteries.
- When disconnecting your solar panel, *DISCONNECT* the battery *LAST*.

Installation:

The Battery Doctor® Solar Controller should be placed as close to the battery as possible in a dry ventilated area; free from water, excessive moisture and weather. If there is a distance between the solar panels and the battery, the longest lengths should be between the solar panels and the charge controller.

Connect to Battery:

Connect the EZ bullet connector ("To Battery") to the EZ bullet connector lead from the battery.

Connect to Solar Panel:

Connect the EZ bullet connector ("To Solar Panel") to the EZ bullet connector lead from the solar panel.

WARNING: Connection to battery MUST be placed in the above specified order – wrong connections may cause sparking or explosion.

Operation:

On the face of the Battery Doctor® Solar Controller you will find two indicator lights by which you can monitor the charge cycle. The green "Charged" light indicates a fully charged battery. When the battery reaches 14.2 volts, the Battery Doctor® Solar Controller will cut-out voltage, ensuring no overcharging. The yellow "Charging" light indicates a battery that is being charged. When the battery reaches 13 volts, the Battery Doctor® Solar Controller will cut-in and begin charging. When connecting or disconnecting, it is normal for one or both indicator lights to flicker for a short time.

Frequently Asked Questions:

- Q.** How many solar panels may I connect to the Battery Doctor® 10 Amp Solar Charge Controller?
- A.** You may connect up to 150 watts coming from one or several solar panels. Remember when connecting multiple solar panels all connections need to be made in parallel and should be kept to a 12 volt configuration.
- Q.** What types of batteries can I use?
- A.** All types of rechargeable 12 volt batteries, including automotive, deep cycle (traction), gel-cell and heavy-duty (stationary) batteries. Deep-cycle batteries are recommended.
- Q.** Do I need to disconnect the Battery Doctor® Solar Controller from the battery or solar panels?
- A.** The solar panels, Battery Doctor® Solar Controller and battery may remain connected at all times. In the circumstance of a moving application, such as a motor home, ensure that each component is securely fastened in place to prevent physical damage to person or property.