

# Solar Auto Charger

## How do the solar panel work

This **Solar Auto Charger** converts light energy from the sun into 12 volt DC electricity which is then transported to the rechargeable batteries through lead wire and connector of choice.

The THIN FILM technology this panel use allow them to absorb a wider spectrum of the natural light, and therefore can work under cloudy winter conditions, and this technology also enable the solar panel to handle the intense heat of the summer sun, its power loss due to the rising temperature is obviously less when compare to other type of solar panel.

Its double glass structure reinforces its strength, and enable the solar panel to withstand hails of 25mm in diameter, striking the panel surface at the speed of 23 meter per second.

## What is it for

This product is designed to charge or maintain 12V battery in motorcycles, cars, caravans, and boats.

## How to use

- When operates, face the front (black) side of the solar panel to the sun, and make sure there is no shadow cast on the solar panel. Best place the long side of solar panel at South to North direction.
- Tilt the solar panel at a suitable angle. The right angle should be same as your local latitude.
- The blue LED on the plastic frame will blink whenever the solar panel is generating electricity
- If permanent installation is required, use the four stainless steel mounting screws included. To increase heat dissipation, a heat resistant spacer should be used between the panel and the surface.
- This **Solar Auto Charger** comes with two different connectors listed as below. Choose the right connector according to your application. When using battery clamp, Please make sure you connect to the correct battery terminals. **Please note that the black lead indicates negative (-) and the red lead indicates positive (+)**. When using cigarette lighter plug,, push the plug into the female cigarette socket, and make sure that both ends are secure and aligned correctly.

## Caution

- Disconnect the **Solar Auto Charger** from your vehicle before start the engine. And make sure that the **Solar Auto Charger** is not in use while you are using your vehicle.
- Do not use the solar charger in rain. This **Solar Auto Charger** is not waterproof.
- The **Solar Auto Charger** uses glass substrate. Please handle with care.
- Always keep the glass surface clean with a soft cloth. In order to ensure its maximum output.
- Avoid contact with acid and alkali.

