



3.5 WATT SOLAR 12V BATTERY
TRICKLE CHARGER WITH
OBD II CONNECTOR



User's Manual

Specifications and Included Items:

Power Rating: Up to 3.5 Watts

Current: 233mA @ 15V

Includes: On-Board Diagnostics (OBD) II plug, 12 Volt DC Plug, Alligator Battery Clamps, extension wire and suction cups

Installation

Installation through OBD II plug:

To connect through your OBD II plug, first locate your vehicle's Data Link Connector (DLC).

On most vehicles the DLC is located under the driver's side dashboard/steering column. In some vehicles it may be concealed behind a panel. If you are unable to find the DLC, consult the vehicle's service manual for the exact location. Insert your OBD II plug into the vehicle's DLC port. You are now ready to charge!

NOTE: Your DLC (OBDII) port must be live when the engine is off to enable a charge. If you are unsure of this, please consult your vehicle's service manual.

Installation through 12 Volt DC Plug:

Plug the 12V DC Plug into the 12 Volt DC socket in vehicle. Make sure both ends are secured and aligned correctly. For optimal power, ensure the panel (solar cell up) is directly facing the sun. You are now ready to charge!

NOTE: Your 12V DC socket must be live when the engine is off to enable a charge. If you are unsure of this, please consult your vehicle's service manual.

Installation to Battery by Alligator Clamps:

Connect the alligator clamps correctly by matching the red clamp which is Positive (+) to the Positive (+) Terminal on your battery. Connect the black clamp which is Negative (-) to the Negative (-) Terminal on your battery. For optimal power, ensure the panel (solar cell up) is directly facing the sun. You are now ready to charge!

WARNING: Follow this battery connection carefully to not cause any bodily harm. Wrong connections may cause a spark or explosion

Mounting With Suction Cups to the Windshield:

Insert the 2 Suction Cups into the predrilled ends of the solar panel. Make sure they are secured properly in the panel. Choose a location preferably facing the sun and attach to the windshield or other glass surface. For best results, ensure windshield is dry, clean, room temperature and slightly lubricate the suction cups before mounting.

NOTE:

This solar panel has a built in blocking diode to prevent reverse discharge. The use of this panel is not recommended while vehicle is in use. When operating your vehicle it is best to secure the solar panel in the glove box or under the seat.

FAQ

What type of batteries does this panel charge?

All rechargeable 12V batteries like those used in Cars, Boats, RV's, Motorcycles and PWC's.

Can I use this solar panel outdoors?

Yes, this solar panel is weatherproof. The weatherproofing includes UV protection and protects from weather effects of -35°F to 175°F (-37°C to 79°C).

How long does it take to charge a battery?

This solar panel can generate 3.5 Watts of power per hour, which is equal to 233 mA of current under ideal conditions. For example, under ideal conditions, the panel will generate 3.5 Watts x 7 hours x 7 days per week for a total of 171 Watts of power.

Do I need a charge controller?

No, a solar battery charge controller is only needed for panels of 15 Watts or greater.

Can I start/drive my vehicle while the unit is connected to the battery?

No, for safety reasons please make sure the panel is not in use while you are using your vehicle. The panel attached to the windscreen or dashboard can cause a distraction to the driver while the vehicle is in motion.

How do I know if the panel is working?

To measure the voltage of the panel use a voltmeter. The voltage reading should be between 16 and 25 Volts in full sun.