

POWOXI 1.8W Solar battery charger

POWOXI 1.8W 12V Solar Car Battery Charger Maintainer Instruction Manual

Model: 1.8W Solar battery charger

Brand: POWOXI

1. INTRODUCTION

The POWOXI 1.8W 12V Solar Car Battery Charger Maintainer is a portable solar panel trickle charging kit designed to maintain the charge of 12-volt batteries in a wide range of vehicles and equipment. This includes automotive, motorcycles, boats, ATVs, marine vessels, RVs, trailers, powersports vehicles, and snowmobiles. Its primary function is to prevent battery discharge and extend battery life by providing a continuous, low-current charge.

Key features of this charger include:

- **Amorphous Solar Panel:** Designed for efficient charging, even in cloudy weather conditions.
- **Reverse Discharge Prevention:** Features a built-in barrier diode to prevent the battery from discharging back through the solar panel.
- **Maintenance-Free Design:** Constructed with a weather-resistant plastic housing for long-term durability and carefree use both indoors and outdoors.
- **Wide Compatibility:** Suitable for any rechargeable 12V battery.

2. WHAT'S IN THE BOX

Your POWOXI 1.8W Solar Car Battery Charger Maintainer package includes:

- 1.8W Solar Panel
- Cigarette Lighter Adapter Cable
- Alligator Clip Adapter Cable
- Suction Cups for mounting

2-Color Indicator Lights, Red & Blue easy viewing of charging status



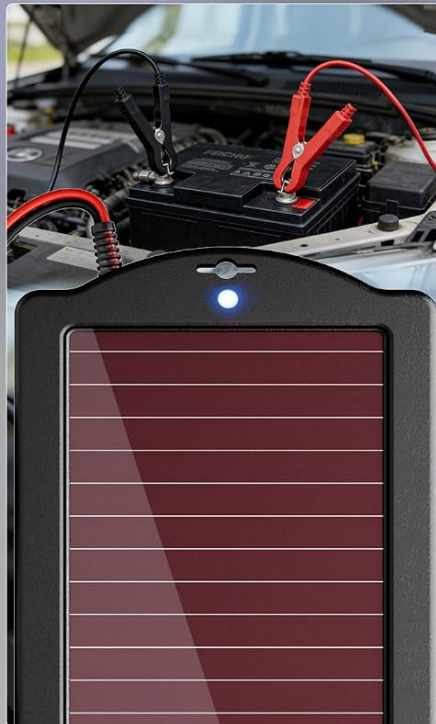
In sunlight
(Uncharged)

Red



Cigarette Lighter
(Charging)

Blue



Alligator Clip
(Charging)

Blue



Image: The POWOXI 1.8W Solar Panel shown with its various connection cables and mounting accessories.

3. SETUP AND INSTALLATION

Proper placement and connection are crucial for optimal performance.

3.1 Solar Panel Placement

Place the solar panel in a location where it receives direct sunlight without any shadows or obstructions. The more direct sunlight the panel receives, the more efficiently it will charge. The red indicator light on the panel will illuminate when there is insufficient sunlight, while a blue or green light indicates sufficient sunlight for charging.

SMART CIRCUIT, TRICKLE CHARGER

Integrated smart circuit design for better battery maintenance
Updated technical design, trickle charging mode



Image: Visual guide to the 2-color indicator lights on the solar panel, showing red for uncharged (insufficient sunlight) and blue for charging (sufficient sunlight) via cigarette lighter or alligator clips.

3.2 Connection Options

The charger offers two methods for connecting to your 12V battery:

3.2.1 Using the Cigarette Lighter Adapter

1. Connect the solar panel's output cable to the cigarette lighter adapter. Ensure the connection is secure, matching positive to positive and negative to negative terminals.
2. Plug the cigarette lighter adapter into your vehicle's cigarette lighter socket.
3. Once connected and exposed to sufficient sunlight, the indicator light on the solar panel will turn blue or green, indicating charging.

Note:

- Some vehicles require the ignition to be in the 'ACC' or 'ON' position for the cigarette lighter socket to be active.
- If the car is off for more than half an hour, the cigarette lighter may stop outputting power. In such cases, use the alligator

clips for direct battery connection.

Video: A short demonstration of connecting the POWOXI 1.8W 12V Solar Trickle Charger via the cigarette lighter adapter inside a car.

3.2.2 Using the Alligator Clip Adapter

1. Connect the solar panel's output cable to the alligator clip adapter. Ensure the connection is secure, matching positive to positive and negative to negative terminals.
2. Connect the red alligator clip to the positive (+) terminal of your 12V battery.
3. Connect the black alligator clip to the negative (-) terminal of your 12V battery.
4. Once connected and exposed to sufficient sunlight, the indicator light on the solar panel will turn blue or green, indicating charging.

Important:

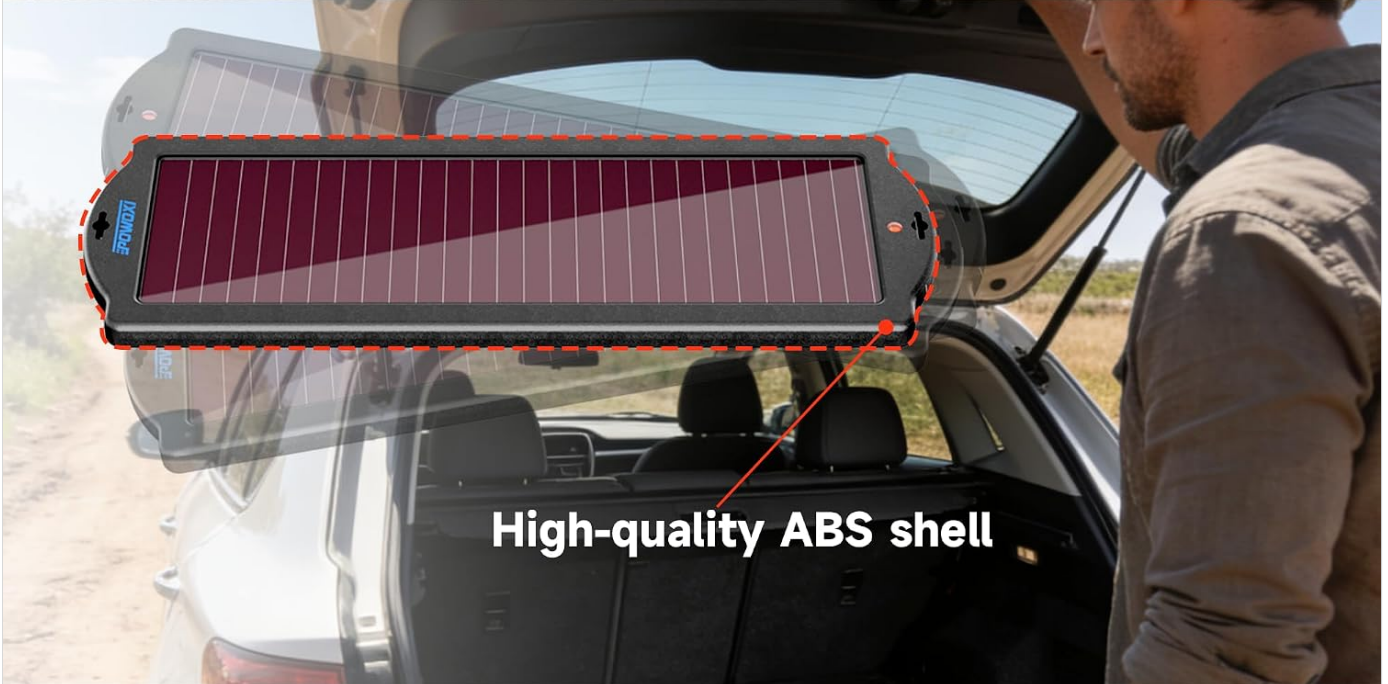
- Always ensure correct polarity when connecting directly to the battery terminals. Connecting with reverse polarity can damage the battery or the charger.

Video: A detailed guide on how to use the solar battery charger, including explanations of the indicator lights and connection methods.

4. OPERATING INSTRUCTIONS

The POWOXI 1.8W Solar Car Battery Charger Maintainer is designed for simple, automatic operation.

1. After proper installation and connection to a 12V battery, ensure the solar panel is exposed to sufficient sunlight.
2. The charger will automatically begin providing a trickle charge to your battery. This low-current charge helps prevent self-discharge and keeps your battery topped off, especially during periods of inactivity.
3. Monitor the indicator light on the solar panel: a blue or green light confirms active charging, while a red light indicates insufficient sunlight or no charging activity.



High-quality ABS shell

Power Up Anywhere: The Rugged ABS Solar Panel for Your Car

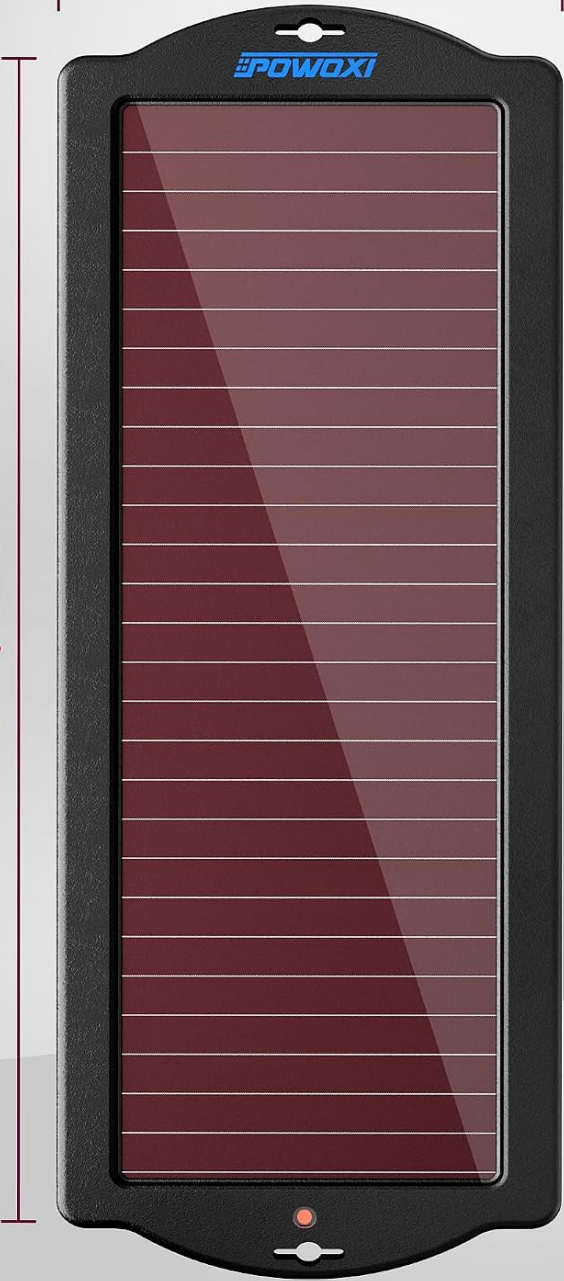
Defy dead batteries with this portable solar solution. Its ultra-durable ABS construction is shockproof, scratch-resistant, and built to conquer bumps, dust, and all road conditions. Keep your battery alive, wherever your vehicle takes you.

Image: The smart circuit design of the POWOXI solar panel, illustrating its integrated technology for efficient trickle charging and battery maintenance.

5. MAINTENANCE

To ensure the longevity and optimal performance of your POWOXI solar charger, follow these simple maintenance guidelines:

- **Keep Clean:** Regularly wipe the surface of the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or other debris that may obstruct sunlight and reduce charging efficiency.
- **Check Connections:** Periodically inspect all cable connections (solar panel to adapter, adapter to battery/cigarette lighter) to ensure they are secure and free from corrosion.
- **Storage:** If storing the charger for an extended period, disconnect it from the battery and store it in a cool, dry place away from direct sunlight.
- **Weather Resistance:** The charger features a heavy-duty plastic housing designed to be weather-resistant. However, for extreme weather conditions, it is advisable to bring the unit indoors if possible.



4.92 inch

13.78 inch

POWOXI

Lightweight Design For Safer Installations

Only 1.21 pounds

Easy Installation, Available anytime

Lightweight

&

Portable

Image: The rugged ABS shell of the solar panel, shown in different outdoor scenarios, emphasizing its durability and suitability for various environments.

6. TROUBLESHOOTING

If you encounter issues with your solar charger, refer to the following troubleshooting tips:

- **No Indicator Light / Red Light On:**

- Ensure the solar panel is placed in direct, unobstructed sunlight. Shadows or cloudy conditions will reduce or prevent charging.
- Check all connections to ensure they are firm and correctly seated.

- **Green Light Not On After Connection (Alligator Clips):**

- Verify that the red clip is connected to the positive (+) battery terminal and the black clip to the negative (-) battery terminal. Incorrect polarity will prevent charging. If the polarity is opposite, a SAE polarity conversion adapter may be required.

- **Cigarette Lighter Connection Not Charging:**

- Confirm that your vehicle's cigarette lighter socket is active. Some vehicles require the ignition to be on.
- If the car has been off for an extended period (e.g., half an hour or more), the cigarette lighter socket may automatically power down. In such cases, use the alligator clip adapter for a direct connection to the battery.

7. SPECIFICATIONS

Product Dimensions	14 x 5 x 1.3 inches (35.56 x 12.7 x 3.3 cm)
Item Weight	1.4 pounds (0.64 kg)
Output Voltage	12 Volts (DC)
Model Number	1.8W Solar battery charger

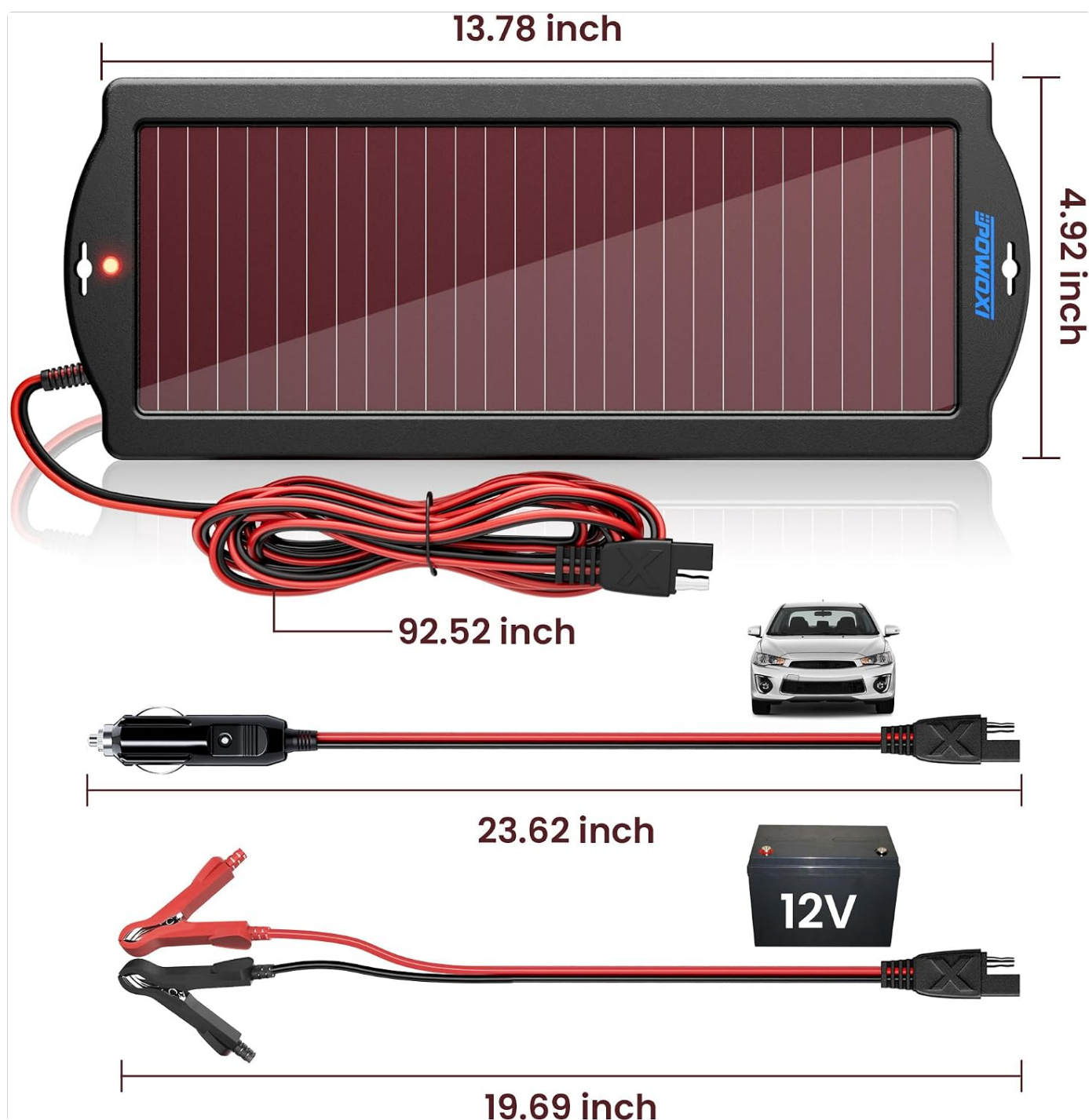


Image: A visual representation of the solar panel's dimensions, indicating its length and width.

8. WARRANTY AND SUPPORT

The POWOXI 1.8W Solar Car Battery Charger Maintainer comes with a **12-month warranty**, ensuring the quality of your product. If you have any questions, concerns, or require assistance with your charger, please contact POWOXI customer support. Your feedback is valuable and helps us improve our products and services.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question