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› POWOXI 9W 12V Solar Battery Trickle Charger Maintainer Instruction Manual

POWOXI ABS Solar 9W

POWOXI 9W 12V Solar Battery Trickle Charger Maintainer

MODEL: ABS SOLAR 9W

Brand: POWOXI

INTRODUCTION

The POWOXI 9W 12V Solar Battery Trickle Charger Maintainer is designed to keep your 12V batteries charged and maintained using solar energy. This portable and waterproof solar panel is suitable for various vehicles and equipment, ensuring your batteries remain in optimal condition. It features an intelligent charge controller for efficient and safe charging.

PRODUCT FEATURES

- **Upgrade Intelligent Charge Controller:** Built-in internal protection system and smart fast charging cooperate with quality solar silicon material, ensuring high conversion and stable output with 25-30% energy conversion efficiency.
- **Smart Internal Protection System:** POWOXI technology prevents battery damage and overcharge. The built-in smart protection system and blocking diode structure ensure no overvoltage and short circuit, enhancing charging safety.
- **Stronger & More Long-lasting:** The 9W solar car battery charger features high-transparency, high-strength, impact-resistant, wind-snow-resistant low-iron tempered glass. This waterproof solar battery charger requires no additional maintenance.
- **Scratch Protection Design:** The ABS+PC frame is stronger than flexible solar panels, preventing bending. The ABS+PC frame also protects vehicle paint, unlike aluminum alloy frames.
- **Easy to Install and Use:** The solar battery maintainer is easy to install and convenient to use. Simply insert it into the car power outlet (cigarette lighter socket) or connect the solar panel directly to the battery with the alligator clips.

PACKAGE CONTENTS

- 1 x 9W Solar panel
- 1 x Cigarette lighter adapter
- 1 x Alligator clip adapter
- 1 x User Manual

SETUP

Before setup, ensure the solar panel is clean and free of obstructions to maximize sunlight absorption. The panel can be mounted using the included suction cups for placement on a windshield or other smooth surfaces, or it can be placed directly on a surface where it receives ample sunlight.

Connecting to Your Battery:

1. **Using Alligator Clips:** Connect the red alligator clip to the positive (+) terminal of your 12V battery and the black alligator clip to the negative (-) terminal. Ensure a secure connection.
2. **Using Cigarette Lighter Adapter:** Plug the cigarette lighter adapter into your vehicle's 12V power outlet. Note that some vehicles may cut power to this outlet when the ignition is off. For continuous charging, ensure your vehicle's 12V outlet remains powered when the ignition is off, or use the alligator clips for direct battery connection.



Figure 1: POWOXI 9W Solar Panel with included alligator clips and cigarette lighter adapter.



Figure 2: Example of solar panel placement on a car windshield using suction cups.

Video 1: An overview of the POWOXI Solar Battery Charger, demonstrating its features and ease of use.

OPERATION

Once connected, the solar panel will automatically begin charging your 12V battery when exposed to sufficient sunlight. The intelligent charge controller manages the charging process to prevent overcharging and ensure optimal battery health.

LED Indicator Status:

- **Red Light:** Indicates the solar panel is receiving sunlight and is actively working to charge the battery.
- **Green Light:** Indicates the battery is fully charged.
- **No Light:** May indicate insufficient sunlight, a disconnected panel, or an issue with the battery connection.

STRONGER AND SAFE WHEREVER YOU GO

IP65 waterproof, heat-resistant, and perfect for maintaining your car battery



- **Receives sufficient sunlight**
- **Battery is connected and Charging**

Figure 3: The LED indicator on the solar panel provides visual feedback on its operational status.

Video 2: A short demonstration of the 9W Solar Battery Charger Maintainer in action, highlighting its compact design and functionality.

MAINTENANCE

The POWOXI 9W Solar Battery Trickle Charger Maintainer is designed for low maintenance. Its durable, waterproof construction with high-transparency tempered glass and an ABS+PC frame ensures longevity and resistance to various weather conditions. Regularly wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris that may reduce charging efficiency. Avoid using harsh chemicals or abrasive materials that could scratch the panel.

TROUBLESHOOTING

- **No LED Light:** Ensure the solar panel is exposed to direct sunlight. Check all connections to the battery or cigarette lighter adapter for proper contact.
- **Battery Not Charging:** Verify that the solar panel is receiving adequate sunlight. Check for any obstructions on the panel surface. Ensure the battery connections are secure and free from corrosion. The intelligent controller prevents overcharging, so if the battery is already full, the light may be green or off.

- **Slow Charging:** Ensure the panel is positioned for maximum direct sunlight exposure. Clean the panel surface. Extreme weather conditions (e.g., heavy clouds, snow) can reduce charging efficiency.
- **Error/Reversed Polarity:** The smart internal protection system is designed to prevent damage from incorrect wiring. If an error occurs, recheck your positive and negative connections to ensure they are correctly aligned.

SPECIFICATIONS

Product Dimensions	14.57 x 9.06 x 1.89 inches (14.76"D x 1.89"W x 9.06"H)
Item Weight	2.2 pounds
Item Model Number	ABS Solar 9W
Output Voltage	12 Volts
Manufacturer	POWOXI
Waterproof Rating	IP65 (implied from features)

WARRANTY INFORMATION

POWOXI products are typically covered by a manufacturer's warranty. For specific details regarding your 9W Solar Battery Trickle Charger Maintainer, please refer to the warranty card included in your product packaging or contact POWOXI customer support directly.

CUSTOMER SUPPORT

Should you encounter any issues or have questions regarding the POWOXI 9W Solar Battery Trickle Charger Maintainer, please contact POWOXI customer support. Contact information can typically be found in the user manual or on the official POWOXI website.