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Marhynchus 4W Solar Panel Charger User Manual

Model: Marhynchusr4ge2uahks-11

1. PRODUCT OVERVIEW

The Marhynchus 4W Solar Panel Charger is designed to provide continuous power to various low-power appliances using solar energy. Featuring a Micro USB interface, this solar panel offers efficient charging and quick installation, making it ideal for outdoor surveillance cameras, courtyard lighting, and other compatible devices.

Constructed from premium ABS and monocrystalline silicon, the panel ensures durability and stable performance. Its compact and lightweight design allows for flexible placement to maximize sunlight exposure.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Solar Panel
- 1 x Installation Base
- 4 x Screws
- 4 x Wall Plugs



Image: The Marhynchus 4W Solar Panel Charger, showing the panel, attached Micro USB cable, and the included mounting base.

3. SETUP AND INSTALLATION

Follow these steps to properly set up and install your solar panel charger:

- 1. Choose a Location:** Select an outdoor location that receives direct sunlight for the majority of the day. Avoid areas with significant shade from trees, buildings, or other obstructions. The panel's efficiency is directly related to the amount of direct sunlight it receives.
- 2. Mount the Base:** Use the provided screws and wall plugs to securely attach the installation base to a wall or other stable surface. Ensure the base is firmly fixed to prevent movement.
- 3. Attach the Solar Panel:** Connect the solar panel to the installation base. The base allows for adjustment of the panel's angle.
- 4. Adjust the Angle:** Angle the solar panel to face the sun directly. For optimal performance, adjust the panel's tilt to match your geographical latitude and the season. In most cases, a south-facing orientation (in the Northern Hemisphere) or north-facing (in the Southern Hemisphere) is recommended.
- 5. Connect to Device:** Plug the Micro USB cable from the solar panel into the Micro USB input port of your compatible low-power appliance (e.g., security camera, outdoor light, fan).



Image: The solar panel attached to its adjustable mounting base, ready for installation.



Image: A side view of the solar panel, highlighting the flexibility of the adjustable mounting bracket for optimal sun

exposure.

4. OPERATING INSTRUCTIONS

The Marhynchus 4W Solar Panel Charger operates automatically when exposed to direct sunlight. It converts solar energy into electrical energy to charge connected devices.

- **Automatic Charging:** Once installed and connected, the solar panel will begin charging your device as soon as it receives sufficient sunlight. No manual intervention is required for charging to commence.
- **Compatibility:** This solar panel is designed for appliances with a Micro USB interface that require 3V-5V input, such as security cameras, outdoor lights, small fans, and water pumps.
- **Continuous Power:** In direct sunlight, the panel provides continuous power, helping to maintain the charge of your device's battery or power it directly.

Ensure the Micro USB connection is secure and free from debris to maintain efficient power transfer.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your solar panel charger:

- **Cleaning the Panel:** Periodically clean the surface of the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or other debris that may accumulate. A clean panel ensures maximum sunlight absorption and charging efficiency. Avoid abrasive cleaners or harsh chemicals.
- **Check Connections:** Regularly inspect the Micro USB cable and its connection points for any signs of wear, corrosion, or looseness. Ensure all connections are secure.
- **Inspect Mounting:** Verify that the installation base and panel are still securely mounted and have not become loose due to weather conditions or other factors.
- **Clear Obstructions:** Ensure that no new obstructions (e.g., growing foliage) are casting shadows on the panel, which could reduce its charging capability.

6. TROUBLESHOOTING

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

- **Device Not Charging:**
 - **Check Sunlight:** Ensure the solar panel is receiving direct, unobstructed sunlight. Overcast conditions or shade will significantly reduce or stop charging.
 - **Clean Panel:** Clean the surface of the solar panel to remove any dirt or debris that might be blocking sunlight.
 - **Verify Connection:** Confirm that the Micro USB cable is securely plugged into both the solar panel and the device. Try unplugging and re-plugging.
 - **Device Compatibility:** Ensure your device is compatible with a 5V Micro USB input and its power requirements do not exceed the panel's 4W output.
- **Low Charging Efficiency:**
 - **Panel Angle:** Adjust the panel's angle to face the sun directly for maximum exposure throughout the day.
 - **Environmental Factors:** Extreme temperatures or heavy cloud cover can affect charging efficiency.
- **Physical Damage:** If the panel or cable appears physically damaged, discontinue use and contact the seller for assistance.

7. SPECIFICATIONS

Feature	Specification
Model Number	Marhynchusr4ge2uahks-11
Power Output	4W
Working Current	0-800mA
Short Circuit Current	750mA
Working Voltage	5V (for charging 3V-5V batteries)
Open Circuit Voltage	6.2V
Material	ABS, Monocrystalline Silicon
Interface	Micro USB
Color	Black
Item Weight	10.6 ounces (approx. 300g)
Package Dimensions	8.27 x 5.12 x 3.15 inches

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer/seller directly. For technical support or further inquiries, please reach out to Marhynchus customer service through the contact information provided with your product or on the official Marhynchus website.