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Orayafid TY-106

Orayafid 6W Solar Panel Charger (Model TY-106) - User Manual

Continuous Power for Your Outdoor Security Cameras

1. Introduction

Thank you for choosing the Orayafid 6W Solar Panel Charger. This solar panel is designed to provide a reliable and continuous power source for your outdoor security cameras, reducing the need for frequent battery recharges. It features a voltage stabilization system to protect your camera's battery and offers broad compatibility with various camera brands. Please read this manual carefully to ensure proper installation and optimal performance of your solar panel.

2. Product Overview

2.1 Package Contents

- 1 x 6W Solar Panel
- 1 x Micro USB Adapter
- 1 x USB-C Adapter
- 1 x DC (35*135) Adapter
- 1 x Mounting Bracket
- 1 x Screw Kit

The image below illustrates the components included in your package.

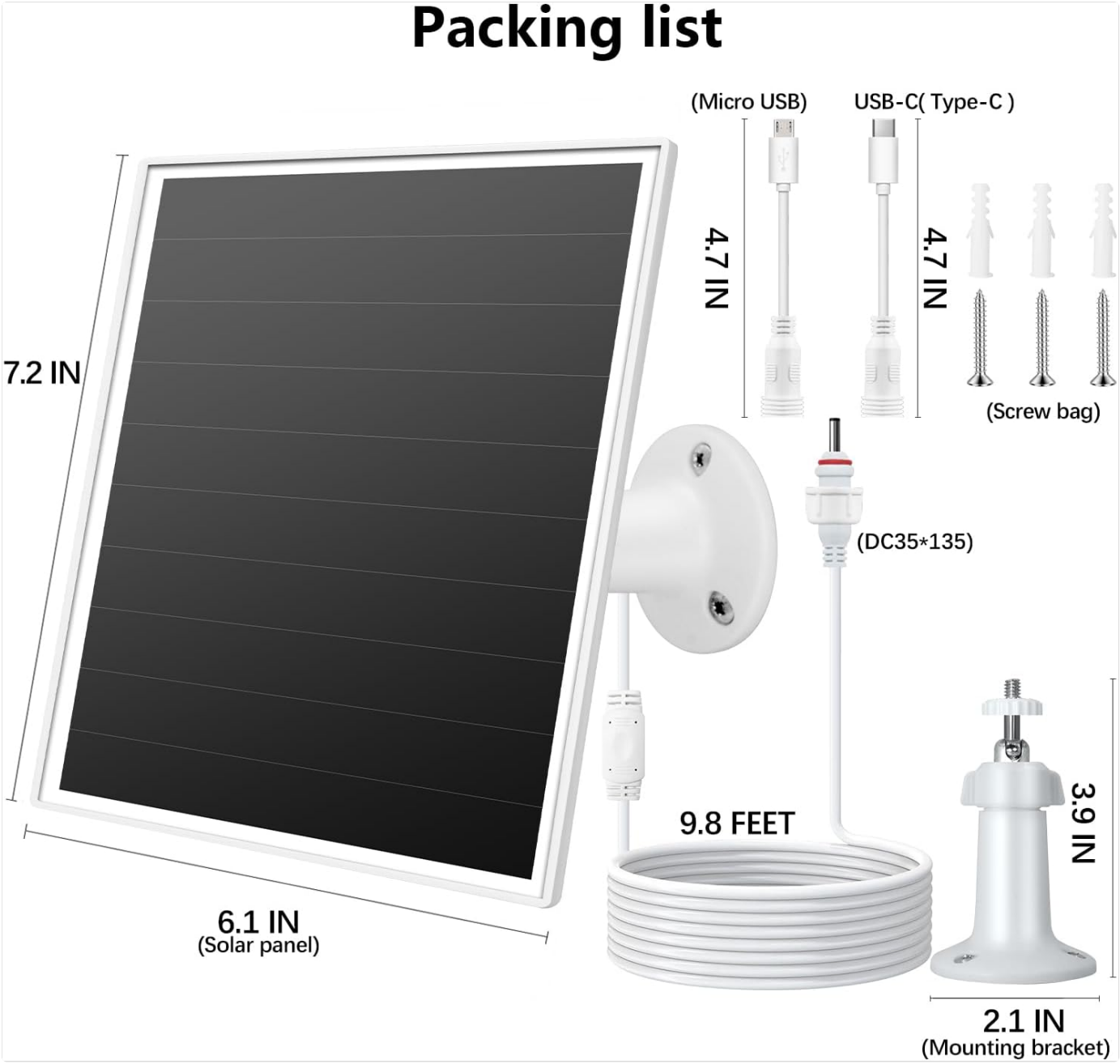


Figure 1: Packing List - Orayafid 6W Solar Panel Charger and Accessories.

2.2 Key Features

- **Stable Charging with Voltage Stabilization:** Built-in system provides 5V and 1.2A output, protecting batteries from voltage spikes.
- **Multi-Connectors & Pan-Compatibility:** Includes Micro USB, USB-C, and DC (35*135) ports for compatibility with various outdoor security cameras (e.g., Eufy, Wyze, Ring, Reolink - some models).
- **6W Power, 23% Solar Efficiency:** Larger panel with advanced shingled technology for efficient charging, even in low light.
- **All-Weather Durability:** IP65 waterproof rating ensures reliable outdoor use in rain or snow, operating from -5°F to 120°F.
- **360° Adjustable & Easy Setup:** Flexible mounting bracket and a 9.8ft (3-meter) cable allow for optimal sunlight capture and convenient placement.

The solar panel is designed for broad compatibility with various camera types, as shown below.



Figure 2: Strong Compatibility with various 5V rechargeable battery cameras.

The integrated voltage stabilization system protects your camera's battery from damage.

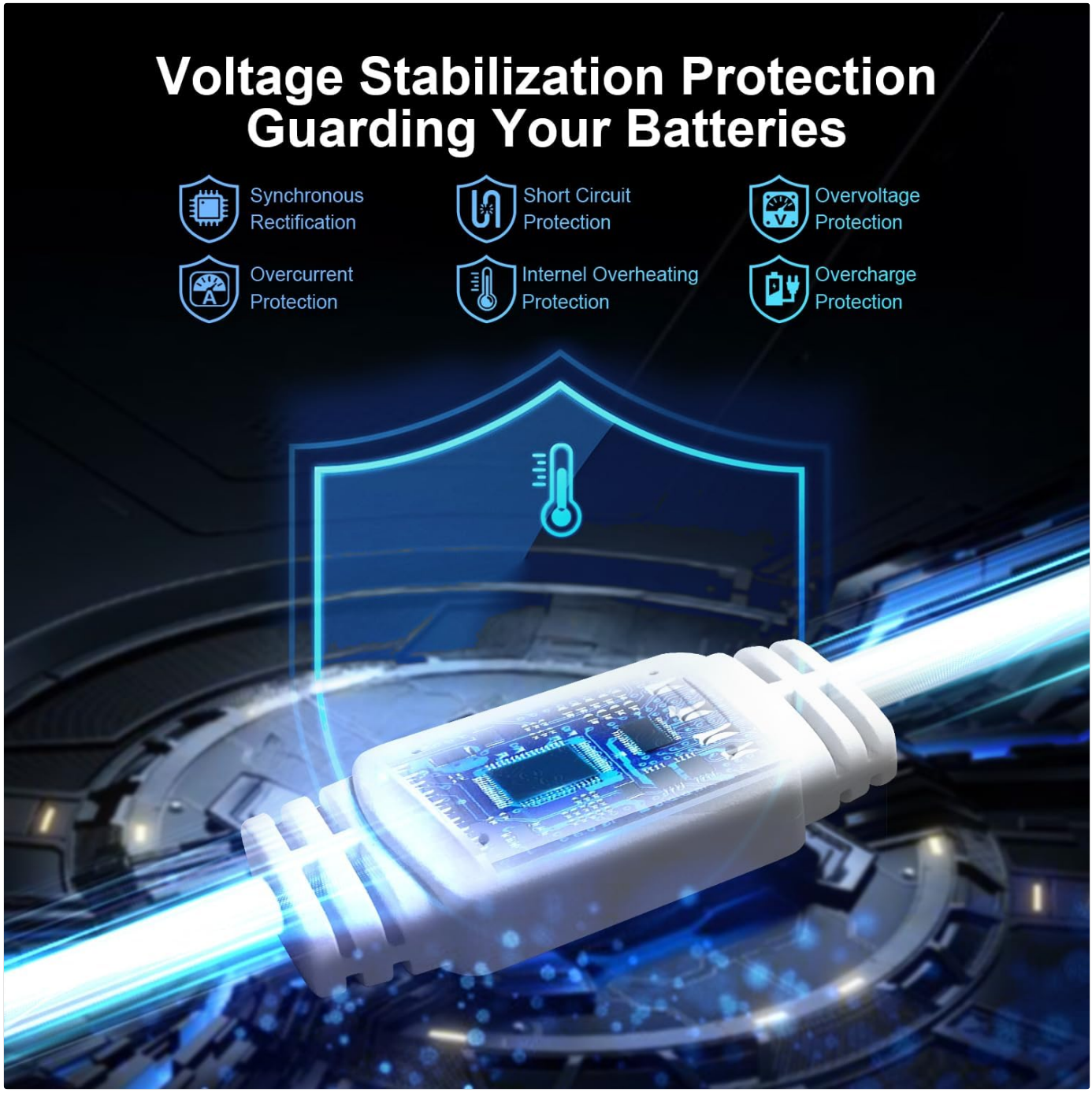


Figure 3: Voltage Stabilization Protection guarding your batteries.

The solar panel is built to withstand various weather conditions.



Figure 4: IP65 Waterproof and Dustproof design for outdoor use.

3. Setup and Installation

Proper installation is crucial for maximizing the solar panel's efficiency. Follow these steps to set up your Orayafid solar panel:

1. **Prepare the Mounting Base:** Unscrew the nut on the mounting bracket to separate the mount base. Secure the mount base to your chosen wall or surface using the provided screws. Ensure the base is firmly attached.
2. **Attach Bracket to Solar Panel:** Rotate the fixing plate on the adjustable bracket to the bottom of the screw post. Align the screw post with the screw hole on the back of the solar panel and screw it in until secure.
3. **Connect Solar Panel to Mount Base:** Install the adjustable bracket (now attached to the solar panel) onto the mount base. Rotate the nut to fix the adjustable bracket, but do not fully tighten it yet.
4. **Adjust Angle:** Adjust the angle of the solar panel to face upward or in the direction that receives the most direct sunlight throughout the day. The 360° adjustable bracket allows for optimal positioning.

5. **Tighten and Connect:** Once the desired angle is set, tighten the screws to firmly fix the adjustable bracket. Finally, connect the solar panel's cable to your security camera using the appropriate adapter (Micro USB, USB-C, or DC 35*135).

For a visual guide, please refer to the installation video below:

Video 1: Installation Tutorial for Orayafid Solar Panels for Security Cameras. This video demonstrates the step-by-step process of mounting the solar panel and connecting it to a camera.

An unboxing video is also available to help you identify all components:

Video 2: Unboxing the Orayafid Solar Panel for Security Camera. This video shows the contents of the package upon arrival.

4. Operating Instructions

Once installed and connected, the Orayafid 6W Solar Panel will automatically begin charging your compatible security camera's battery when exposed to sunlight. The panel is designed to provide a stable 5V output, ensuring efficient and safe charging.

- **Optimal Sunlight:** For best performance, ensure the solar panel receives at least 3-5 hours of direct sunlight daily.
- **Compatibility:** This solar panel is compatible with most 5V rechargeable battery cameras that use Micro USB, USB-C, or DC (35*135) ports. It is not compatible with cameras that require a constant plug-in power source and do not have internal batteries.
- **Voltage Stabilization:** The integrated voltage stabilization system protects your camera's battery from overcharging and voltage fluctuations, extending battery life.

You can observe the panel's power generation capability in the following video:

Video 3: Testing Solar Panel Electricity Generation with a Fan. This video demonstrates the solar panel's ability to power a small fan under direct sunlight.

5. Maintenance

The Orayafid solar panel is designed for minimal maintenance due to its durable construction and IP65 waterproof rating. However, occasional checks can ensure long-term optimal performance:

- **Cleaning:** Periodically wipe the surface of the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or other debris that may accumulate and obstruct sunlight. Avoid using harsh chemicals or abrasive materials.
- **Cable Inspection:** Check the connection cable and adapters for any signs of wear, damage, or loose connections. Ensure the waterproof interface port is securely sealed.
- **Angle Adjustment:** Re-evaluate the panel's angle periodically, especially during seasonal changes, to ensure it is still receiving maximum direct sunlight.
- **Environmental Conditions:** The panel operates effectively in temperatures from -5°F to 120°F. While it is waterproof, avoid submerging it in water.

6. Troubleshooting

If you encounter issues with your solar panel, consider the following:

Problem	Possible Cause	Solution
Camera not charging or charging slowly	Insufficient sunlight exposure	Adjust the panel's angle and position to ensure it receives direct sunlight for several hours daily. Clear any obstructions (trees, buildings).
Camera battery draining despite solar panel connection	Low light conditions or partial shade	In areas with consistent low light or heavy shade, the panel may only slow battery drain rather than fully charge. Consider repositioning or supplementing with occasional manual charging.
Loose or damaged connections	Check all cable connections, including the adapter to the camera and the panel. Ensure they are secure and free from damage.	
Incompatible camera model	Verify your camera is a 5V rechargeable battery model and uses one of the supported ports (Micro USB, USB-C, DC 35*135). The panel is not for plug-in cameras without batteries.	
Panel surface is dirty	Clean the solar panel surface to ensure maximum light absorption.	

7. Specifications

Feature	Detail
Brand	Orayafid
Model Number	TY-106
Material	Monocrystalline Silicon
Product Dimensions	7.28"L x 6.1"W x 0.47"H
Efficiency	23%
Maximum Voltage	5 Volts (DC)
Maximum Power	6 Watts
Output Voltage	5 Volts
Waterproof Rating	IP65
Cable Length	9.8 feet (3 meters)
Operating Temperature	-5°F to 120°F
Connectors	Micro USB, USB-C, DC (35*135)
Item Weight	1.01 pounds

Feature	Detail

8. Warranty and Support

8.1 Warranty Information

This Orayafid solar panel comes with a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact Orayafid customer support through the retailer where you purchased the product or visit the official Orayafid website for contact information. Please have your model number (TY-106) and proof of purchase ready when contacting support.

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