

PALONE MWS-069

PALONE Solar Bug Zapper MWS-069 User Manual

Model: MWS-069

1. INTRODUCTION

Thank you for choosing the PALONE Solar Bug Zapper MWS-069. This device is designed to effectively attract and eliminate flying insects such as mosquitoes, gnats, flies, and moths using UV light and a high-voltage grid. It features dual charging capabilities via solar panel and USB-C, making it suitable for both indoor and outdoor use. Please read this manual thoroughly before operation to ensure proper use and maintenance.



Image 1.1: The PALONE Solar Bug Zapper MWS-069 with its accompanying solar panel, illustrating its primary function as an insect control device.

2. IMPORTANT SAFETY INSTRUCTIONS

To prevent injury or damage to the device, always follow these safety precautions:

- **High Voltage:** The internal grid operates at 4500V. Do not touch the internal grid with hands or metal objects, even when the device is off.
- **Children and Pets:** Keep the bug zapper out of reach of children and pets. The outer mesh is designed with a 0.19-inch gap for safety, but direct contact with the inner grid is dangerous.
- **Cleaning:** Always ensure the device is in the OFF mode and disconnected from any power source before cleaning.
- **Water Exposure:** While the outer mesh is IP66 waterproof, avoid submerging the entire unit or allowing water to enter the electrical components. Do not rinse the main unit directly with water.
- **Heat Sources:** Keep the bug zapper away from open flames, heaters, or other high-temperature sources.
- **Ventilation:** Ensure adequate ventilation around the device during operation.

- **Damage:** Do not operate the device if the power cord, plug, or casing is damaged. Contact customer support for assistance.

Safe for Kids and Pets



Non-toxic and non-harmful
Safer and more secure



Mosquitos



Gnats



Files



Moths



Midges

Image 2.1: The PALONE Solar Bug Zapper positioned safely near a sleeping child and dog, highlighting the protective outer mesh designed to prevent accidental contact with the high-voltage grid.

3. PACKAGE CONTENTS

Please check the package for the following items:

- PALONE Solar Bug Zapper Unit
- Solar Panel with 3.6m (11.8 ft) Cord
- USB-C Charging Cable
- Cleaning Brush
- User Manual



Image 3.1: Contents of the PALONE Solar Bug Zapper package, including the main unit, solar panel, USB-C cable, and instruction book.

4. PRODUCT FEATURES

- **Efficient Insect Elimination:** Utilizes a specific wavelength UV light to attract insects and a 4500V high-voltage grid for effective zapping.
- **Dual Charging Options:** Equipped with both a solar panel for outdoor charging and a USB-C port for convenient indoor charging.
- **Multiple Operating Modes:** Features Normal, Off, and Night modes to suit various usage scenarios and power management needs.
- **Durable and Weather-Resistant:** Constructed from ABS fireproofing material and rated IP66 waterproof, ensuring durability and safe outdoor use in various weather conditions.
- **Safe Design:** The outer protective mesh has a narrow gap (0.19 inches) to prevent accidental contact with the high-voltage grid, making it safer for environments with children and pets.
- **Easy Maintenance:** Features a removable bottom tray for collecting insect debris and includes a cleaning brush for simple upkeep.

Bug Zapper Detail Shows



Image 4.1: An exploded view of the PALONE Bug Zapper, showing key components such as the hanging hook, adjusting button, charging ports, cleaning brush, UV light tube, ABS fireproof material, and mosquito storage box.

5. SETUP

1. **Unpack:** Carefully remove all components from the packaging.
2. **Initial Charge:** For optimal performance, fully charge the bug zapper using the USB-C cable before first use. Connect the USB-C cable to the charging port on the device and plug the other end into a compatible USB power adapter (not included).
3. **Solar Panel Connection:** If using solar charging, connect the solar panel cable to the designated port on the bug zapper.
4. **Placement:** Choose a suitable location for the bug zapper. For best results, place it in an area where insects are prevalent, away from direct human activity.
5. **Hanging:** Use the integrated hanging hook to suspend the zapper if desired. Ensure it is securely hung to prevent falling.

Solar Charging



Type-C Charging

Fast full charge for
11-13 hours of use



Image 5.1: The PALONE Bug Zapper demonstrating its dual charging capabilities: solar charging via an external panel and USB-C charging for faster power replenishment.

6. OPERATING MODES

The PALONE Solar Bug Zapper features three operating modes, controlled by a switch:

- **Normal Mode:** When the solar panel is connected and exposed to sunlight, the device will simultaneously power the zapper and charge the internal battery. If connected via USB-C, the zapper will operate continuously.
- **OFF Mode:** The device is completely powered off. Use this mode when cleaning or storing the zapper.
- **Night Mode:** When the solar panel is connected, the zapper will charge its internal battery during daylight hours. In darkness, the zapper will automatically activate, powered by the built-in battery. This mode is ideal for automatic night operation without manual intervention.

Solar Panels Energy Saving Working Mode

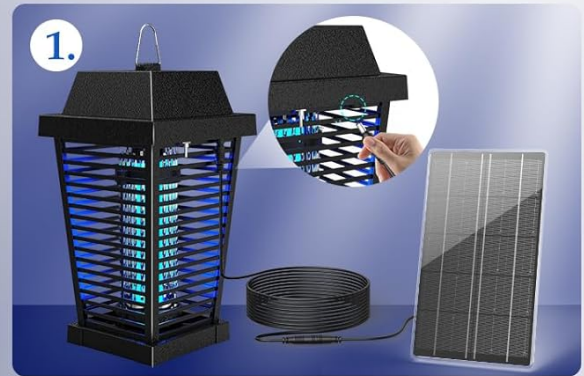


Image 6.1: Illustration of the solar panel's energy-saving working modes, showing how the zapper charges in sunlight and operates automatically at night.

7. CHARGING

Your PALONE Bug Zapper offers flexible charging options:

- **Solar Charging:** Connect the solar panel to the zapper. Place the solar panel in direct sunlight for efficient charging. In Normal mode, the solar panel powers the zapper and charges the battery simultaneously. In Night mode, the solar panel charges the battery during the day, and the zapper operates from the battery at night.
- **USB-C Charging:** For faster charging or when sunlight is unavailable, connect the provided USB-C cable to the zapper's charging port and a standard USB power adapter. The device can maintain normal operation while connected via USB-C. A full charge provides approximately 11-13 hours of use.

8. PLACEMENT RECOMMENDATIONS

Optimal placement enhances the effectiveness of the bug zapper:

- **Outdoor Use:** Ideal for outdoor patios, courtyards, camping areas, and fishing spots. Hang or place the zapper approximately 6-8 feet above the ground for best coverage.
- **Indoor Use:** Can be used in indoor bedrooms or other areas where flying insects are a nuisance. Ensure it is placed away from sleeping areas and food preparation surfaces.
- **Solar Panel Positioning:** Position the solar panel in an area that receives maximum direct sunlight throughout the day. The 3.6-meter cord allows for flexible placement of the panel relative to the zapper.
- **Distance from People:** For best results, place the zapper a short distance away from where people are gathered, as it attracts insects.



Image 8.1: The PALONE Bug Zapper shown in diverse environments, including an outdoor picnic, courtyard, indoor bedroom, and during outdoor fishing, demonstrating its versatility.

9. CLEANING AND MAINTENANCE

Regular cleaning ensures optimal performance and longevity of your bug zapper:

1. **Power Off:** Ensure the device is in the OFF mode before any cleaning.

2. **Empty Insect Tray:** The bottom tray collects dead insects. Twist the tray to the left to unlock it, gently pull it out, and empty the contents.
3. **Clean Grid:** Use the provided cleaning brush to carefully remove any insect debris from the high-voltage grid. Do not use water or metal objects on the grid.
4. **Rinse Tray:** The insect collection tray can be rinsed with water. Ensure it is completely dry before reattaching.
5. **Reassemble:** Reattach the dry insect tray by aligning it and twisting to the right to lock it securely.
6. **General Care:** While the outer mesh is waterproof, avoid direct water spray into the electrical components. Wipe the exterior with a damp cloth if needed.

Cleaning Method



Image 9.1: Step-by-step guide on how to clean the PALONE Bug Zapper, showing the process of twisting the tray, gently pulling it out, rinsing with water, and tightening it back.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Zapper not turning on	Low battery; Incorrect mode; Power connection issue	Charge the battery via USB-C or solar panel. Ensure switch is in Normal or Night mode. Check USB-C cable connection.
Ineffective insect elimination	Improper placement; Too much ambient light; Grid is dirty	Relocate to a darker area or higher traffic insect area. Reduce competing light sources. Clean the internal grid and insect tray.
Solar panel not charging	Insufficient sunlight; Panel obstructed; Cable disconnected	Ensure panel is in direct sunlight. Clear any obstructions. Check solar panel cable connection.
Zapper makes no sound when zapping	Normal operation	The device is designed to operate quietly, with only occasional zapping sounds. This is not an indication of malfunction.

11. SPECIFICATIONS

Feature	Detail
Brand	PALONE
Model Number	MWS-069
Material	Acrylonitrile Butadiene Styrene (ABS)
Color	Black
High Voltage Grid	4500V
Charging Options	Solar Panel, USB-C
Waterproof Rating	IP66
Product Dimensions	6.61 x 6.61 x 12.01 inches (16.8 x 16.8 x 30.5 cm)
Item Weight	2.35 pounds (1.07 kg)
Solar Panel Cord Length	3.6 meters (11.8 feet)

12. WARRANTY AND SUPPORT

PALONE products are manufactured to high-quality standards. For any questions, concerns, or issues regarding your PALONE Solar Bug Zapper MWS-069, please contact our customer support team. Refer to your purchase documentation for specific warranty details and contact information.