

PALONE

PALONE Solar Bug Zapper User Manual

Model: MWS-069

Brand: PALONE

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your PALONE Solar Bug Zapper. Please read this manual thoroughly before operating the device and retain it for future reference. The PALONE Solar Bug Zapper is designed to attract and eliminate flying insects such as mosquitoes, flies, gnats, and moths using UV light and a high-voltage grid. It offers versatile power options including solar charging, Type-C USB charging, and a built-in rechargeable battery, making it suitable for both indoor and outdoor use.

2. SAFETY INFORMATION

WARNING: High Voltage. Keep out of reach of children and pets.

- Do not touch the internal high-voltage grid.
- Ensure the device is in OFF mode before cleaning or performing any maintenance.
- Do not immerse the product in water. While the outer mesh is waterproof, avoid water entering internal components.
- Keep away from flammable materials and heat sources.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Only use the provided Type-C cable for charging.
- Do not modify or disassemble the device. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

- PALONE Solar Bug Zapper Unit
- Solar Panel (with 3.6m cable)
- Type-C USB Charging Cable

- Cleaning Brush/Accessory
- User Manual (this document)



Figure 3.1: Included components in the PALONE Solar Bug Zapper package.

4. PRODUCT FEATURES

- **Powerful 4500V Grid:** Effectively electrocutes mosquitoes, flies, gnats, moths, and other flying insects.
- **UV Light Attraction:** Uses a special wavelength light source to attract insects.
- **Multiple Power Options:** Can be powered by a 7.5W 5V solar panel, Type-C USB cable, or the built-in 2600mAh rechargeable battery.
- **Long Battery Life:** Provides approximately 13 hours of operation on a single full charge.
- **Three Operating Modes:** Normal Mode, OFF Mode, and Night Mode for versatile use.
- **Safety Features:** Protective fence with 0.19-inch interval prevents accidental contact with the high-voltage grid. Made of ABS refractory material.
- **IP66 Waterproof Rating:** Designed for outdoor use and resistant to rain.
- **Easy Cleaning:** Removable bottom tray and included cleaning accessory for simple maintenance.

5. PRODUCT COMPONENTS

Bug Zapper Detail Shows



Figure 5.1: Key components of the PALONE Solar Bug Zapper.

1. **Hanging Hook:** For suspending the zapper.
2. **Adjusting Button & Charging Ports:** Controls modes and provides Type-C charging input.
3. **Cleaning Brush:** Used for cleaning the high-voltage grid.
4. **UV Light Tube:** Emits light to attract insects.
5. **ABS Fireproof Material:** Durable and safe housing.
6. **Mosquito Storage Box:** Collects zapped insects for easy disposal.

6. SETUP

6.1 Initial Charging

Before first use, it is recommended to fully charge the bug zapper. Connect the provided Type-C USB cable to the charging port on the device and plug the other end into a compatible USB power adapter (not included). The charging indicator will turn from red to green when fully charged (approximately 6 hours).

Solar Charging



2600mAh battery can be used without plugging in

Type-C Charging

**Fast full charge for
11-13 hours of use**



Figure 6.1: Type-C charging for the bug zapper.

6.2 Placement

Choose a suitable location for the bug zapper. It can be placed on a flat surface or hung using the integrated hook. For optimal performance, place the zapper in an area where insects are prevalent, away from human activity to draw insects away from you.

When using the solar panel, ensure it is positioned in direct sunlight for maximum charging efficiency. The 3.6m cable allows for flexible placement of the solar panel relative to the zapper unit.

Solar Charging



2600mAh battery can be used without plugging in

Type-C Charging

Fast full charge for
11-13 hours of use



Figure 6.2: Solar charging setup.

IP66 Waterproof

No need to worry about
leaving it outdoors
in the rain



Figure 6.3: Versatile placement options for the bug zapper.

7. OPERATION

7.1 Powering On/Off and Mode Selection

The bug zapper features a mode switch with three positions: Normal Mode, OFF Mode, and Night Mode. The switch is located on the top of the unit, near the charging ports.

Solar Panels Energy Saving Working Mode



Figure 7.1: Understanding the operating modes.

- **Normal Mode:** When connected to the solar panel, the zapper will operate continuously and simultaneously charge the internal battery during daylight hours. When connected via Type-C, the zapper will operate continuously.
- **OFF Mode:** Turns the bug zapper completely off. This mode should be selected before cleaning or storage.
- **Night Mode:** When connected to the solar panel, the zapper will only charge during the day. It will automatically power on and operate using the built-in battery when it detects darkness.

7.2 Video Demonstration

Your browser does not support the video tag.

Video 7.1: Official demonstration of the PALONE Solar Bug Zapper in operation, showcasing its features and effectiveness.

8. MAINTENANCE

8.1 Cleaning the Bug Zapper

Regular cleaning is essential to maintain the efficiency of your bug zapper. Always ensure the device is in **OFF Mode** before cleaning.

Safe for Kids and Pets



Mosquitos



Gnats



Files



Moths



Midges

Figure 8.1: Step-by-step cleaning instructions.

1. **Twist the bottom tray:** Rotate the mosquito storage box at the bottom of the unit counter-clockwise to unlock it.
2. **Remove and clean:** Gently pull out the tray. Use the provided cleaning brush to remove any dead insects from the high-voltage grid.
3. **Rinse the tray:** The collection tray can be rinsed with water. Ensure it is completely dry before reattaching.
4. **Reattach the tray:** Align the tray and twist clockwise to secure it back in place.

Note: While the outer mesh is waterproof, avoid direct water exposure to the internal electrical components. Do not use abrasive cleaners or solvents.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Zapper not turning on.	Battery is depleted; Device is in OFF mode; Solar panel not receiving enough light.	Charge the battery via Type-C cable or place solar panel in direct sunlight. Ensure the mode switch is set to Normal or Night mode.

Problem	Possible Cause	Solution
Insects are not being zapped effectively.	High-voltage grid is dirty; Zapper is placed too close to other light sources; Zapper is placed too close to human activity.	Clean the high-voltage grid as per maintenance instructions. Relocate the zapper to a darker area or further away from other lights. Place the zapper away from people to attract insects to it.
Battery life is shorter than expected.	Insufficient solar charging; Battery degradation over time.	Ensure solar panel is in direct sunlight for at least 6 hours daily. Use Type-C charging for a full charge.
Solar panel not charging.	Solar panel is dirty or obstructed; Not enough direct sunlight.	Clean the solar panel surface. Reposition the solar panel to receive maximum direct sunlight.

9.1 Frequently Asked Questions (FAQs)

- **What insects can the solar bug zapper kill?**

The solar bug zapper can kill small bugs like fly, fruit fly, moth, wasp, mosquito, bee, spider etc.

- **Can it be used as an exterminator?**

Yes, it can be used as an indoor mosquito killer as well as an outdoor mosquito killer. It has a wide range of uses.

10. SPECIFICATIONS

Feature	Detail
Brand	PALONE
Model Number	MWS-069
Color	Blue
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	1.05 Kilograms (2.31 pounds)
Product Dimensions	11.81 x 6.3 x 6.3 inches
Voltage Grid	4500V
Battery Capacity	2600mAh
Solar Panel Power	7.5W 5V
Solar Panel Cable Length	3.6 meters (approx. 11.8 feet)
Waterproof Rating	IP66
Target Species	Moth, Fly, Mosquito, Gnat, Wasp

11. WARRANTY AND SUPPORT

PALONE products are manufactured with high-quality materials and undergo strict quality control. For specific warranty details and customer support, please refer to the warranty card included with your purchase or contact PALONE customer service directly through their official website or the retailer where the product was purchased.

For further assistance, you may visit the [PALONE Store on Amazon](#).