

## PALONE WD-287S

# PALONE Solar Bug Zapper

Model: WD-287S - Instruction Manual

## 1. IMPORTANT SAFETY INSTRUCTIONS

Please read all safety instructions carefully before using the PALONE Solar Bug Zapper. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Keep out of reach of children and pets.** This device uses high voltage.
- Do not insert metal objects into the grid.
- Do not use near flammable liquids or gases.
- Do not immerse the unit in water. The device is IPX4 waterproof, meaning it is protected against splashing water, but not submersion.
- Disconnect power before cleaning or performing maintenance.
- Ensure the solar panel is securely mounted to prevent it from falling.
- Use only the provided charging cables and solar panel.

## 2. PRODUCT OVERVIEW

The PALONE Solar Bug Zapper (Model WD-287S) is designed to effectively eliminate flying insects using a 4000V electric grid and UV light attraction. It features dual charging options (solar and USB-C) and two operating modes for versatile indoor and outdoor use.

### Components:

- Bug Zapper Unit with UV lamps and electric grid
- 8W Solar Panel with 3-meter cable
- USB-C Charging Cable (1.5-meter)
- Hanging Chain
- Ground Support Rods / Adjustable Bracket for Solar Panel
- Mounting Screws

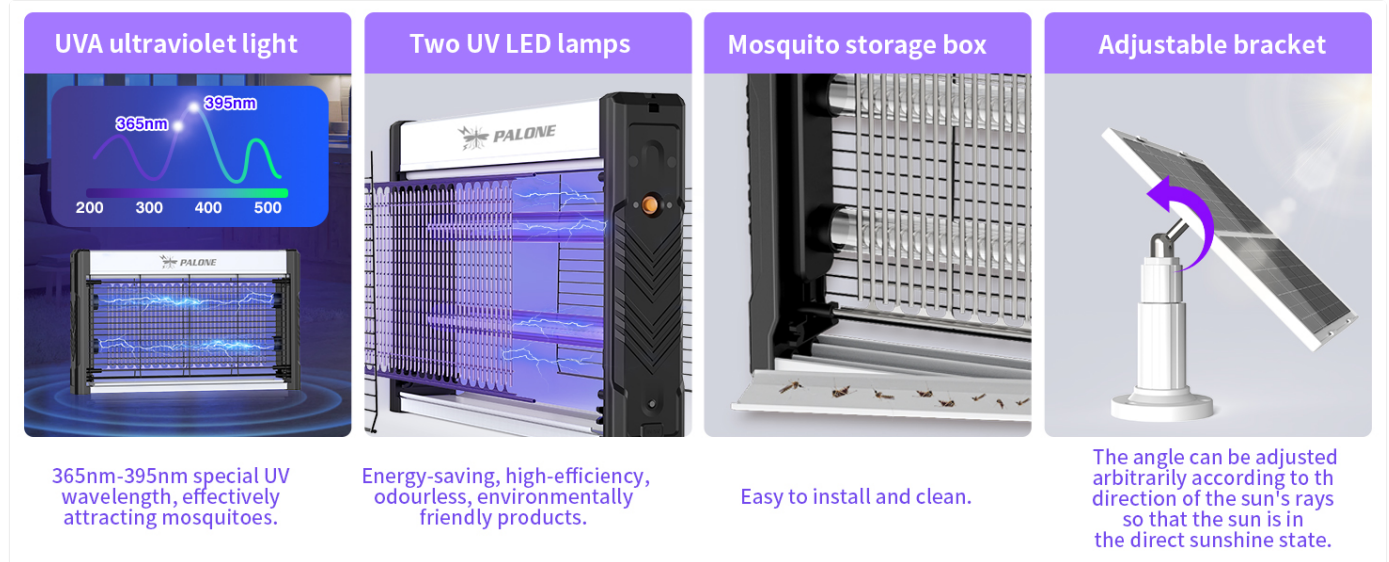


Figure 2.1: Included Components of the PALONE Solar Bug Zapper.

## 3. SETUP AND INSTALLATION

### 3.1 Charging Options

The bug zapper offers two methods for charging its internal Lithium Ion battery:

- **Solar Charging:** Connect the 8W solar panel to the zapper unit. Place the solar panel in a location that receives direct sunlight for optimal charging. The 3-meter cable allows for flexible placement.
- **USB-C Charging:** For faster charging or when solar power is unavailable, use the provided USB-C cable to connect the zapper to a compatible USB power source.

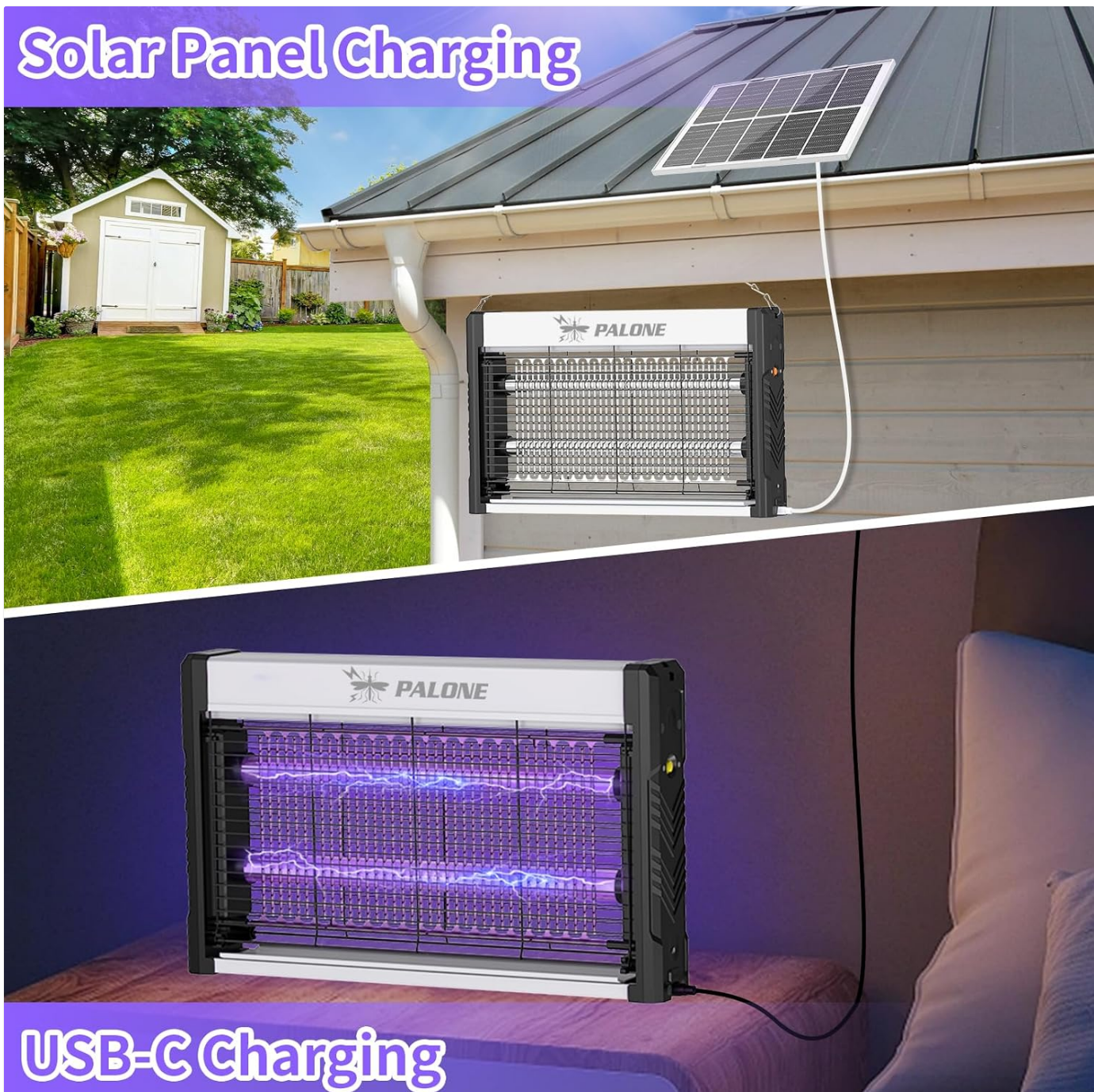


Figure 3.1: Solar Panel and USB-C Charging Methods.

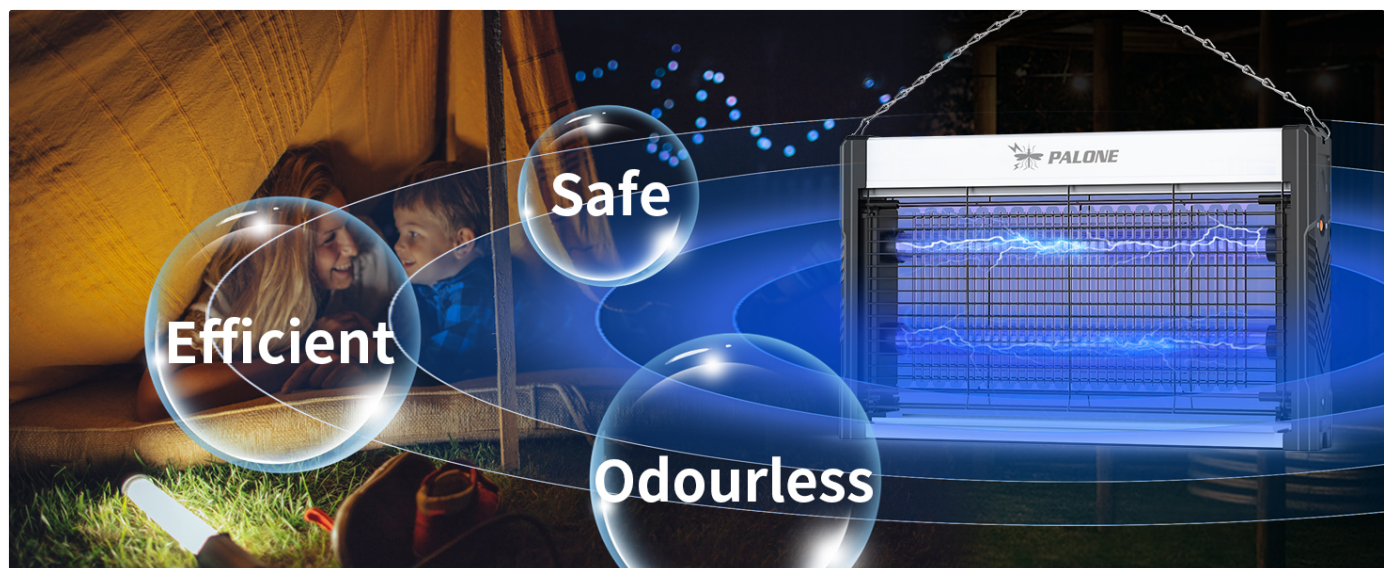


Figure 3.2: Visual representation of the dual charging options.

## 3.2 Mounting Options

The bug zapper can be installed in various ways to suit your environment:

- **Hanging:** Use the provided chain to hang the unit from a hook or suitable support. Ensure the hanging point is stable and can support the weight of the zapper.
- **Ground Placement:** Attach the support rods to the bottom of the unit to insert it into the ground. This is ideal for gardens, patios, or camping areas. The solar panel can be adjusted using its bracket to face the sun.

Video 3.1: Demonstrates how to install the solar bug zapper, including attaching support rods for ground placement.

## 4. OPERATION

The PALONE Solar Bug Zapper features two distinct operating modes:

### 4.1 Mode Selection

Press the power button on the unit to cycle through the modes:

- **First Press (Solar Mode):** In this mode, the zapper will charge during daylight hours via the solar panel. When light levels drop (e.g., at dusk), the electric shock function will automatically activate. If the solar panel is not connected, this mode will keep the zapper continuously on.
- **Second Press (Always-On Mode):** The bug zapper will operate continuously, 24 hours a day, regardless of light conditions or solar charging status.
- **Third Press:** Turns the unit off.

# Solar light control mode

Press the button once; for daytime lighting, press the button twice and cover or remove the solar panel.



Figure 4.1: Solar Light Control Mode (Automatic Night Operation).

# Constant light mode

Press the button twice.



Figure 4.2: Constant Light Mode (24-Hour Operation).

## 4.2 Effective Insect Control

The zapper utilizes 365nm~395nm UV light waves to attract insects, which are then eliminated by a 4000V high-voltage electric grid. This physical method is effective and does not use chemicals.

# Output voltage **4000V**

Endurance **10h** under full charge  
(Continuous use: 6h)



Figure 4.3: High Voltage Electric Grid for Insect Elimination.

Video 4.1: Overview of the Solar Bug Zapper in an outdoor setting, demonstrating its function.

## 5. MAINTENANCE AND CLEANING

Regular maintenance ensures optimal performance and longevity of your bug zapper.

### 5.1 Cleaning the Mosquito Storage Box

The unit includes a removable mosquito storage box at the bottom for easy cleaning. To clean:

1. Ensure the unit is turned off and unplugged from any power source.
2. Gently slide out the mosquito collection tray from the bottom of the unit.
3. Empty the collected insects into a waste bin.

4. Wipe the tray clean with a dry cloth or brush. Do not use water or cleaning solutions on the electrical components.
5. Slide the clean tray back into place until it clicks securely.

## 5.2 General Care

- The device has an IPX4 waterproof rating, protecting it from splashing water. However, avoid direct water jets or submerging the unit.
- The outer casing is made of ABS fireproof material. Wipe it with a dry or slightly damp cloth as needed.
- Periodically check the solar panel for dirt or debris and clean it gently to ensure efficient charging.



Figure 5.1: Features for durability and easy maintenance, including waterproof design and mosquito storage.

## 6. TROUBLESHOOTING

If you encounter issues with your PALONE Solar Bug Zapper, refer to the following common problems and solutions:

| Problem                                    | Possible Cause                                                                       | Solution                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Zapper not turning on.                     | Low battery or no power.                                                             | Charge the unit using the USB-C cable or ensure the solar panel is receiving direct sunlight for several hours. |
| Zapper not attracting insects effectively. | Unit placed in an area with competing light sources or too far from insect activity. | Relocate the zapper to a darker area where insects are prevalent. Ensure it is not obstructed by other lights.  |
| Solar charging not working.                | Solar panel is dirty, obstructed, or not receiving direct sunlight.                  | Clean the solar panel. Adjust its position to maximize direct sunlight exposure. Check the connection cable.    |
| Unit stops working after a short period.   | Battery not fully charged or battery degradation.                                    | Ensure a full charge before use. If the issue persists, contact customer support.                               |

## 7. SPECIFICATIONS

| Feature            | Detail                           |
|--------------------|----------------------------------|
| Model Number       | WD-287S                          |
| Brand              | PALONE                           |
| Output Voltage     | 4000V                            |
| Solar Panel Power  | 8W                               |
| Battery Type       | 1 Lithium Ion battery (included) |
| Charging Options   | Solar, USB-C                     |
| UV Wavelength      | 365nm~395nm                      |
| Waterproof Rating  | IPX4                             |
| Material           | ABS Fireproof Material           |
| Product Dimensions | 25 x 8 x 49 cm                   |
| Product Weight     | 1.62 kg                          |

## 8. WARRANTY AND SUPPORT

PALONE products are designed for reliability and performance. This product comes with a standard return policy of 30 days for refund or replacement.

For any questions, technical support, or warranty claims, please contact PALONE customer service through your purchase platform or the official PALONE website. Please have your model number (WD-287S) and purchase details ready when contacting support.

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question