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› SUNVIE 300W Low Voltage Transformer User Manual

SUNVIE SUNVIE 300W-LVT-LLT-TIMER

SUNVIE 300W Low Voltage Transformer User Manual

Model: SUNVIE 300W-LVT-LLT-TIMER

PRODUCT OVERVIEW

The SUNVIE 300W Low Voltage Transformer is designed to safely convert standard household voltage to a low voltage suitable for landscape lighting. It features a built-in timer and a photocell sensor for automated operation, ensuring your outdoor lighting is efficient and convenient. This transformer is built to be durable and weather-resistant for long-term outdoor use.



Figure 1: SUNVIE 300W Low Voltage Transformer

Video 1: Official overview video showcasing the key features and benefits of the SUNVIE 300W Low Voltage Transformer, including its photocell sensor, timer functions, and waterproof design.

Safety Information

Please read and understand all safety instructions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- This transformer is designed for 12V/14V AC low voltage landscape lighting systems only. Do not connect to higher voltage systems.
- Ensure all screw connections are tight. Do not mix solid and stranded type wires under one screw. Make sure wire insulation clears the terminal block.
- The built-in circuit protection will disconnect power if overloaded to prevent equipment damage. Reset the overload

protector after troubleshooting and restarting.

- The transformer is waterproof and corrosion-resistant, suitable for both indoor and outdoor use. However, ensure the power outlet it is plugged into is also rated for outdoor use and protected from direct water exposure.
- Keep the photocell sensor away from other light sources (e.g., house lights, streetlights) to prevent interference with its normal operation.
- Always disconnect power before performing any installation, maintenance, or troubleshooting.

WHAT'S IN THE BOX

Your SUNVIE 300W Low Voltage Transformer package includes:

- 1 x 300W Low Voltage Transformer with Timer and Photocell Sensor
- 1 x Photocell Sensor with 6.8ft UL listed power cord
- 1 x Bracket for Photocell Sensor
- 1 x Mounting Plate Kit for Transformer (with concrete anchors)
- 1 x User Manual (Quick Start Guide)

SPECIFICATIONS

Feature	Specification
Product Dimensions	7.9 x 5.4 x 3.5 inches (11.24 Pounds)
Power Source	Corded Electric (120V AC input)
Output Voltage	12V/14V AC
Current Rating	25 Amps
Mounting Type	Wall Mount
Waterproof Rating	IP65 (implied by weather durable claims)



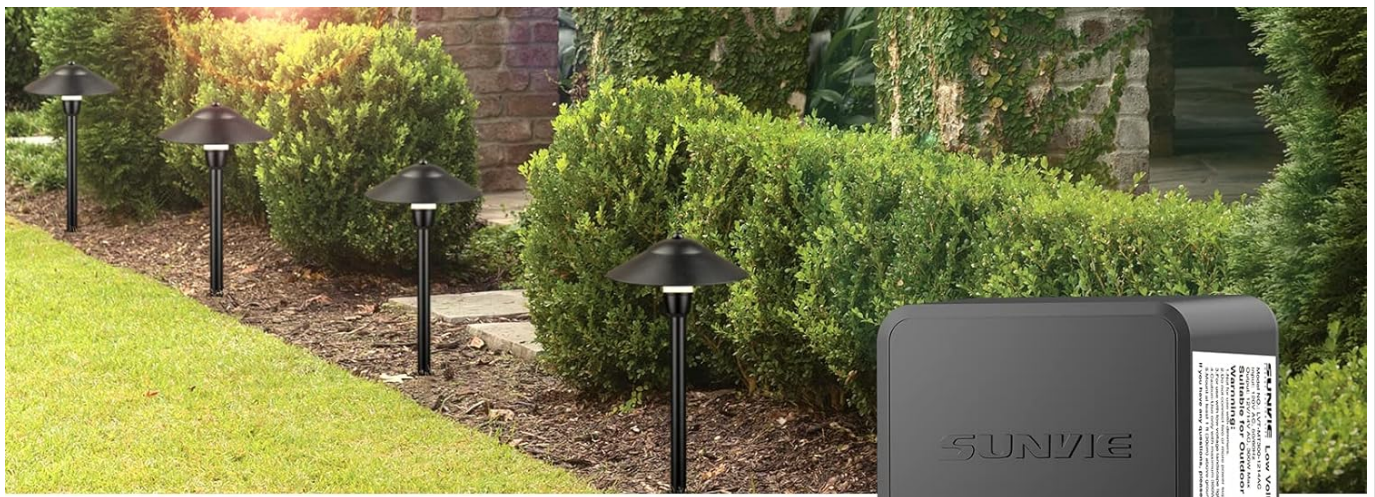
Figure 2: Product Dimensions

SETUP GUIDE

Video 2: This video provides a comprehensive guide on how to install and use the SUNVIE Low Voltage Transformer, covering wiring, sensor connection, mounting, and programming various operating modes.

1. Wiring the Main Low Voltage Wire

Connect your low voltage landscape lighting wires to the terminal block at the bottom of the transformer. Ensure the wires are stripped to the recommended length (typically 1/2 inch) and securely fastened under the screws. Do not overtighten.



Photocell Sensor

The replaceable photocell sensor automatically turn on at dusk and turn off at sunrise

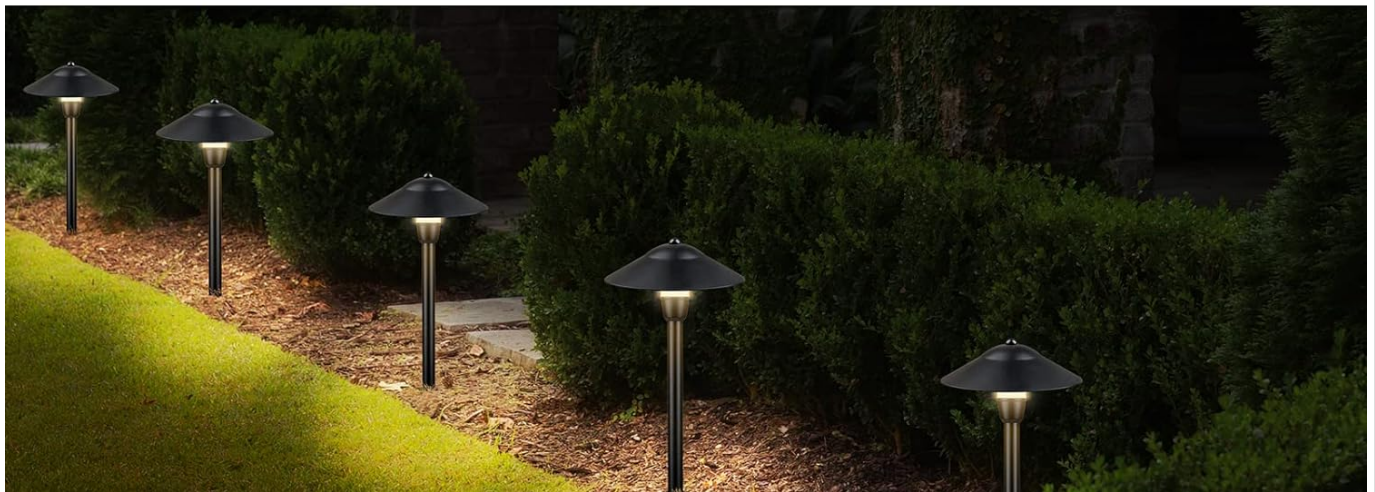


Figure 3: Terminal Block for Wiring

2. Connecting the Photocell Sensor

The external photocell sensor connects to the designated port on the transformer. Align the sensor connectors and twist to securely tighten the threads. This ensures a stable and waterproof connection.



Figure 4: Connecting the Photocell Sensor

3. Mounting the Transformer

Use the provided metal mounting plate and concrete anchors to securely fix the transformer to a wall. Ensure the mounting surface is sturdy enough to support the transformer's weight. The mounting plate provides a stable base for installation.

4. Mounting the Photocell Sensor

Fix the photocell sensor using its bracket to a suitable location on the wall. It is crucial to position the sensor away from direct light sources (such as house lights or streetlights) to prevent interference and ensure accurate dusk-to-dawn operation.



Figure 5: Mounted Transformer and Photocell Sensor

OPERATING INSTRUCTIONS

Control Panel Overview

The intuitive control panel allows for easy programming of the transformer's various modes. The digital display shows the current time or selected mode, and indicator lights provide status updates.

4 TERMINAL OUTPUT ENDS

Choose any one or more terminals according to your needs

CIRCUIT BREAKER

Short circuit protection, can be recovered after troubleshooting

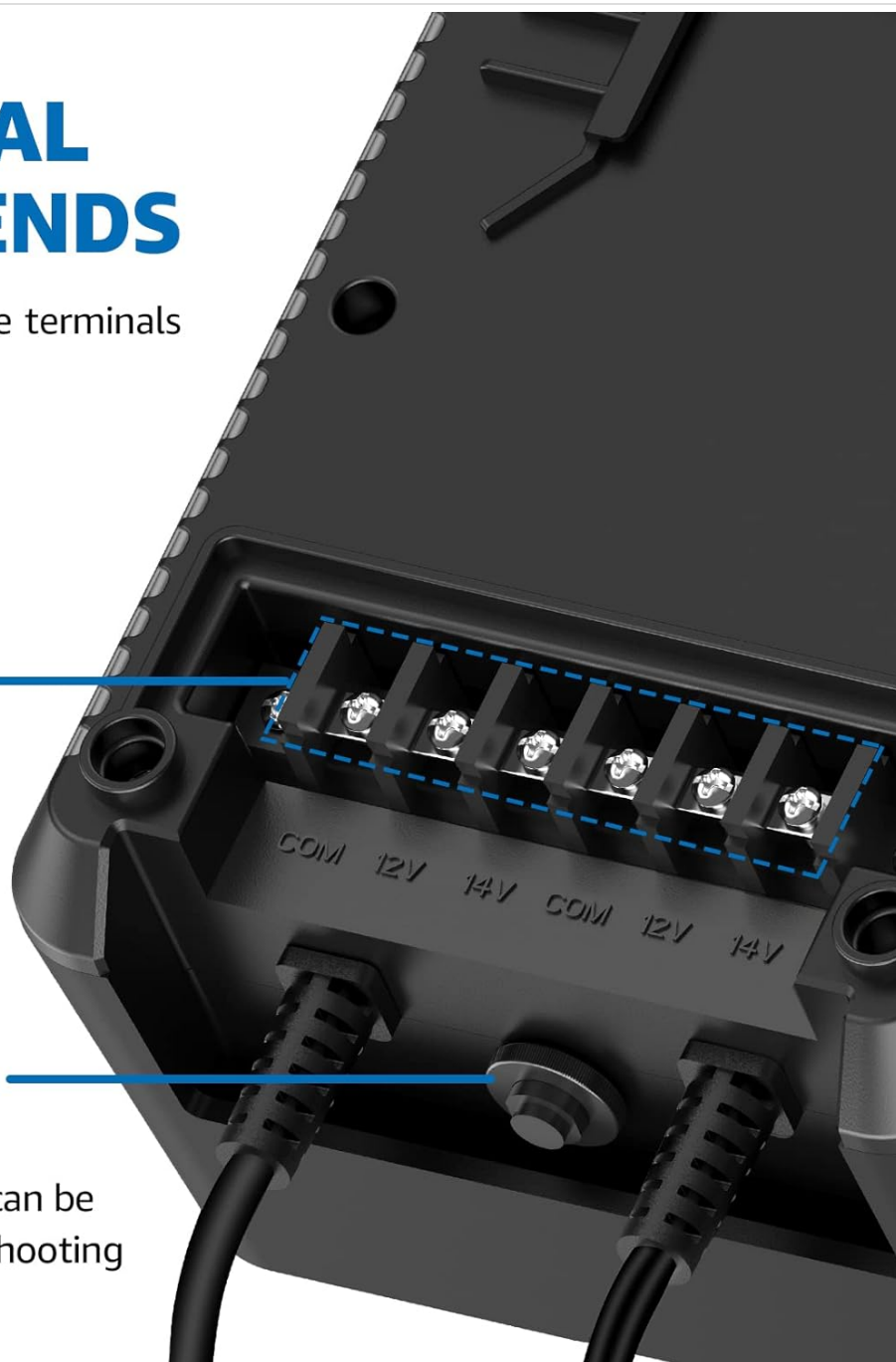


Figure 6: Control Panel and Modes

Setting the Clock

To set the local time, press the 'MENU' button until the 'CLOCK' indicator is lit. Use the arrow buttons to adjust the hour and minute, then press 'ENTER' to confirm.

Manual ON/OFF Mode

In this mode, the landscape lights will remain continuously ON or OFF based on your manual selection. Press 'MENU' until 'MANUAL ON/OFF' indicator is lit. Use the arrow buttons to toggle between ON and OFF. This mode is useful for testing or when you need lights on or off regardless of time or light conditions.

Dusk to Dawn Mode (Auto Mode)

When the 'PHOTO EYE AUTO ON/OFF' indicator is lit, the landscape lights will automatically turn on at dusk and turn off at dawn. This mode utilizes the photocell sensor to detect ambient light levels. No time setting is required for this mode.

Dusk ON Timer OFF Mode (Semi-automatic Mode)

With the 'PHOTO EYE ON/TIMER OFF' indicator lit, the landscape lights will turn on at dusk and automatically turn off after a set duration. Use the arrow buttons to set the desired duration (e.g., 4H, 6H, 8H). The lights will remain off until the next dusk cycle.

Timer ON/OFF Mode (DIY Mode)

When the 'TIME ON/OFF' indicator is lit, you can set specific ON and OFF times for your landscape lights. Use the arrow buttons to set the desired ON and OFF times, then press 'ENTER' to confirm each setting. This allows for customized scheduling.

Testing the Photocell Sensor

To test the photocell sensor, ensure the sensor's weatherproof cover is open. If ambient light gets dark, the spotlight should turn on immediately. If it's bright, the spotlight will turn off after 60 seconds to eliminate interference from abnormal light sources. This confirms the sensor is functioning correctly.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your SUNVIE Low Voltage Transformer.

- **Cleaning:** Periodically wipe down the transformer and photocell sensor with a soft, damp cloth to remove dust and debris. Ensure the photocell sensor is clean for accurate light detection.
- **Inspections:** Regularly check all wiring connections for tightness and signs of corrosion or damage. Inspect the power cord and sensor cord for any cuts or fraying.
- **Photocell Sensor:** Ensure the photocell sensor is unobstructed and not covered by dirt, leaves, or other objects that could block light.
- **Ventilation:** Ensure the transformer's ventilation slots are clear of obstructions to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your transformer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights not turning on/off as programmed	Incorrect time setting; Photocell sensor obstructed or exposed to unwanted light; Incorrect mode selected.	Verify clock setting and AM/PM. Clean or reposition photocell sensor. Ensure correct operating mode is selected.
Lights flickering or constant clicking sound	Loose wiring connections; Overload; Faulty unit.	Check and tighten all wiring connections. Reset the overload protector. If issues persist, contact customer support.
Transformer not powering on	No power to outlet; Circuit breaker tripped; Faulty unit.	Check power outlet with another device. Reset the circuit breaker on the transformer. If still no power, contact customer support.

WARRANTY AND SUPPORT

SUNVIE stands behind the quality of its products. This transformer comes with a **12-month replacement warranty** from the date of purchase.

We also provide **lifetime after-sale support guarantee**. If you have any questions, concerns, or require assistance with your SUNVIE Low Voltage Transformer, please do not hesitate to contact our customer support team. Refer to the product packaging or our official website for contact information.

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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.

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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