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> SUNVIE 120W Low Voltage Landscape Lighting Transformer User Manual (Model TLA-120-12W)

## SUNVIE TLA-120-12W

# SUNVIE 120W Low Voltage Landscape Lighting Transformer User Manual

Model: TLA-120-12W

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your SUNVIE 120W Low Voltage Landscape Lighting Transformer. This device converts standard 120V AC household voltage to a safe 12V AC output, suitable for various low voltage landscape lighting applications.

### Key Features:

- Compatible with all LED low voltage lighting.
- Built-in timer and photocell sensor for automatic operation.
- Multiple operating modes: Always On, AUTO (dusk-to-dawn), and Countdown Timer (1-9 hours).
- Easy installation with two mounting holes and plug-and-play design.
- Durable metal housing with IP65 waterproof rating for outdoor use.
- ETL certified for safety and reliability.

## 2. SAFETY INSTRUCTIONS

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

- **Electrical Safety:** Always disconnect power at the circuit breaker before installing or servicing the transformer. Ensure all connections are secure and properly insulated.
- **Placement:** Mount the transformer at least 1 foot (30cm) above ground level. Do not immerse the transformer in water.
- **Load Capacity:** Do not exceed 80% of the transformer's total wattage capacity (e.g., for a 120W

transformer, do not connect more than 96W of lighting).

- **Cable Protection:** Protect low voltage cables by routing them in close proximity to the luminaire or building structure, or by burying them up to 6 inches (15cm).
- **Compatibility:** Use only with low voltage landscape luminaires, submersible pumps, and fittings.
- **Power Cord:** Do not use extension cords. Ensure the power cord is not damaged.

### 3. PACKAGE CONTENTS

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Verify that all components are present in the package:

- SUNVIE 120W Low Voltage Transformer
- Photocell Sensor (integrated)
- User Manual

### 4. SETUP AND INSTALLATION

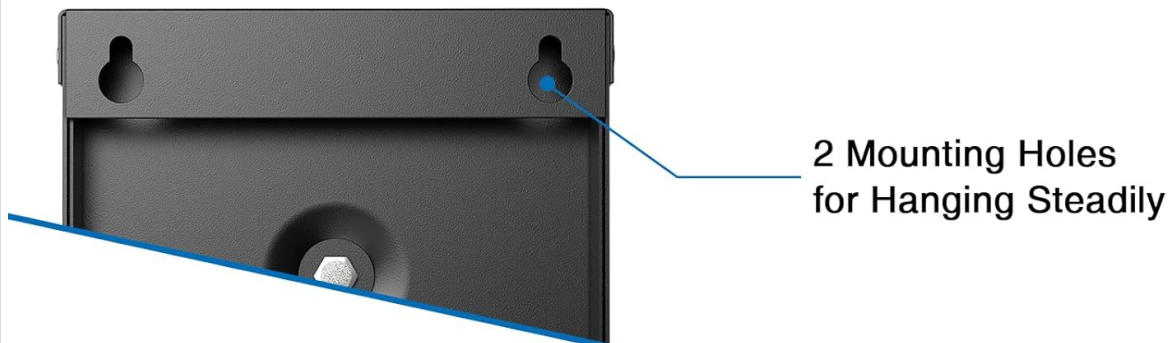
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#### 4.1 Mounting the Transformer

The transformer is designed for wall mounting. Choose a suitable outdoor location that is protected from direct impact and allows for proper cable management.

1. Identify a sturdy vertical surface for mounting.
2. Use the two mounting holes on the back of the transformer as a template to mark drilling locations.
3. Drill appropriate holes and secure the transformer using screws (not included) suitable for your mounting surface.

# Easy to Install

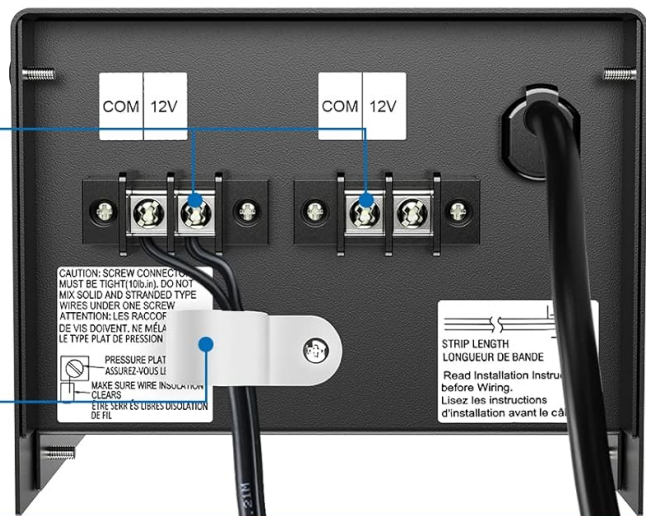


## 2 Terminals Output Ends

Two 12V AC circuit can be connected concurrently

## Cable Loop

Thread your cable through it to reduce its gravity



**Note :** It shows no output at terminals when the transformer is not connected with load  
Total power of lighting should not exceed 80% of the power pack's capacity

**Image Description:** This image displays the rear view of the SUNVIE 120W transformer, highlighting two circular mounting holes at the top for secure wall installation. Below these, a cable loop is visible, designed to reduce strain on the wiring. The image also points out the two sets of 12V AC output terminals at the bottom, where landscape lighting cables are connected.

## 4.2 Wiring the Lights

The transformer features two sets of 12V AC output terminals, allowing for concurrent connection of two separate lighting circuits.

1. Ensure the transformer is unplugged from the power outlet.
2. Strip approximately 1/2 inch (1.25 cm) of insulation from the ends of your low voltage landscape light cables.
3. Loosen the screws on the desired 12V AC output terminals (labeled 'COM' and '12V').
4. Insert one wire from your landscape light cable into the 'COM' terminal and the other into the '12V' terminal.
5. Tighten the screws firmly to ensure a secure connection. Repeat for additional lights or circuits.
6. Thread the connected cables through the cable loop to reduce gravity strain.
7. Once all connections are made, plug the transformer into a standard 120V AC outdoor-rated electrical outlet.

**Note:** The transformer will show no output at the terminals if it is not connected to a load (i.e., landscape lights).

## 5. OPERATION

### 5.1 Control Panel Overview

The transformer features a simple control panel with a digital display and two control buttons.



**Image Description:** This image shows the front of the SUNVIE 120W Low Voltage Transformer. The central control panel features a red digital display and two arrow buttons (up and down) for setting modes. A small indicator light is also visible. To the right, the attached 3-prong power plug is shown.

### 5.2 Setting Operating Modes

Press the "▲" (Up) or "▼" (Down) button to cycle through the available operating modes:

- **Always On Mode:** The landscape lights will remain on continuously. This mode is indicated by a specific display on the control panel.
- **AUTO Mode (Photocell Sensor):** When set to "AUTO" mode, the built-in photocell sensor will automatically turn on the landscape lights at dusk and turn them off at dawn. This provides energy-

efficient operation based on natural light levels.



## PHOTOCELL SENSOR

Turn on at dusk and turn  
off at dawn automatically

**Image Description:** This image demonstrates the photocell sensor feature. It shows a landscape light fixture and the SUNVIE transformer. The text 'PHOTOCELL SENSOR' indicates that the lights will automatically turn on at dusk and turn off at dawn, as depicted by the contrast between a daytime and nighttime garden scene.

- **Countdown Timer Mode:** In this mode, the landscape lights will automatically turn on at dusk (triggered by the photocell sensor) and then turn off after a set duration. You can select a countdown period of 1, 2, 3, 4, 5, 6, 7, 8, or 9 hours.



## COUNTDOWN TIMER

Turn on at dusk and turn  
off 1/2/3/4/5/6/7/8/9 hrs later

**Image Description:** This image illustrates the countdown timer feature. It shows the SUNVIE transformer in a garden setting with illuminated pathway lights. The text 'COUNTDOWN TIMER' explains that the lights will automatically turn on at dusk and turn off after a user-selected duration of 1 to 9 hours.

### 5.3 Memory Function

The transformer is equipped with a memory function. It will retain the last set operating mode even after a power interruption, ensuring consistent operation without needing to reset the mode.

## 6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your transformer.

- **Cleaning:** Periodically wipe the exterior of the transformer with a soft, damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the power cord and low voltage cables for any signs of damage, fraying, or wear. Ensure all terminal connections remain tight.
- **Photocell Sensor:** Keep the photocell sensor clean and free from obstructions (e.g., leaves, dirt) to ensure accurate dusk-to-dawn operation.
- **Weather Protection:** While the transformer is IP65 waterproof, avoid prolonged submersion or direct

high-pressure water spray.

## 7. TROUBLESHOOTING

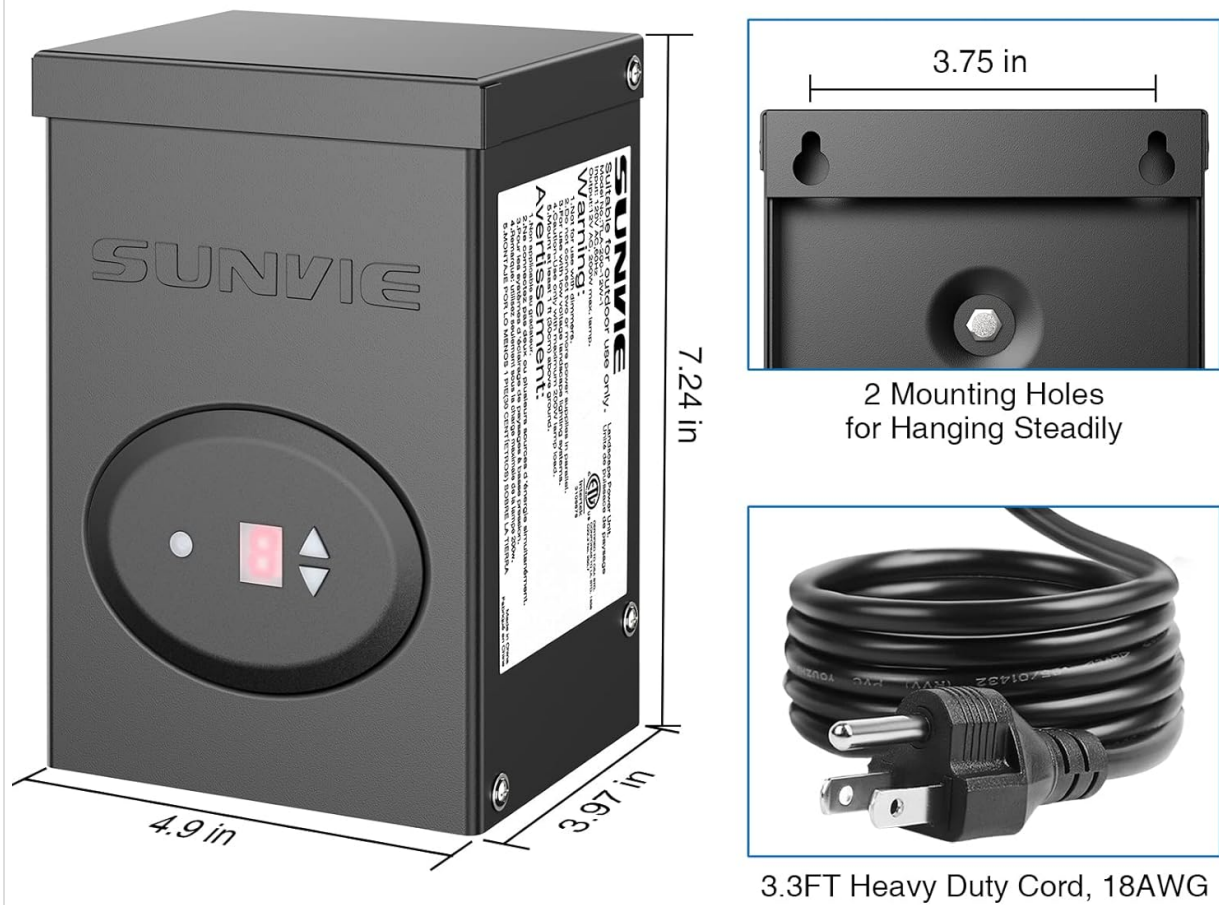
If you encounter issues with your transformer, refer to the following table for common problems and solutions.

Problem	Possible Cause	Solution
Lights do not turn on.	No power to transformer. Loose wiring connections. Photocell sensor obstructed (in AUTO/Countdown mode). Overload/Short circuit. Faulty lights.	Check power outlet and circuit breaker. Ensure all wires are securely connected to terminals. Clear any obstructions from the photocell sensor. Reduce total wattage of connected lights; check for short circuits in wiring. Test lights individually.
Lights stay on continuously (in AUTO/Countdown mode).	Photocell sensor receiving too much light. Photocell sensor faulty.	Relocate transformer or shield photocell from artificial light sources. Contact customer support.
Lights turn off too early/late (in AUTO mode).	Photocell sensor sensitivity. Photocell sensor obstructed.	Ensure photocell is clean and unobstructed. Consider ambient light conditions.
Digital display is off or flickering.	Power issue. Internal fault.	Check power connection. If problem persists, contact customer support.

## 8. TECHNICAL SPECIFICATIONS

Specification	Detail
Model Number	TLA-120-12W
Input Voltage	120V AC
Output Voltage	12V AC
Wattage	120W
Waterproof Rating	IP65
Power Cord Length	3.3 FT SJTW 18AWG
Certifications	ETL Listed
Dimensions (L x W x H)	Approx. 4.9 x 3.97 x 7.24 inches
Weight	Approx. 5.9 Pounds

# Dimensions



**Image Description:** This image provides a detailed view of the SUNVIE 120W transformer's dimensions. It shows the height (7.24 inches), width (4.9 inches), and depth (3.97 inches) of the main unit, along with the 3.75-inch spacing for the two mounting holes. The attached 3.3 FT heavy-duty 18AWG power cord is also depicted.

## 9. WARRANTY AND CUSTOMER SUPPORT

### 9.1 Warranty Information

SUNVIE provides a 12-month warranty for this product from the date of purchase. This warranty covers manufacturing defects and product quality issues under normal use. If you encounter any product quality problems within the warranty period, SUNVIE will provide free replacement services.

### 9.2 Customer Support

For any questions, concerns, or assistance regarding your SUNVIE 120W Low Voltage Transformer, please contact SUNVIE customer service. Our support team is committed to providing satisfactory and reliable assistance within 24 hours.

Please refer to the product packaging or the official SUNVIE website for the most current contact information.

