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› treewell 300W Low Voltage Landscape Transformer Instruction Manual

treewell TSLT03A

treewell 300W Low Voltage Landscape Transformer Instruction Manual

Model: TSLT03A | Brand: treewell

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the treewell 300W Low Voltage Landscape Transformer. This transformer converts standard 120V AC household voltage to a safe 12V or 15V AC for outdoor landscape lighting systems. It features a built-in photocell sensor and a programmable timer for automated operation.

2. 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 other hazards.

- Always disconnect power at the circuit breaker before installing, servicing, or performing any maintenance on the transformer or connected lighting.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not immerse the transformer in water. It is designed for outdoor use and is weatherproof, but not submersible.
- Avoid overloading the transformer. The maximum output is 300W. Exceeding this limit can cause the circuit breaker to trip or damage the unit.
- The integrated circuit breaker will trip automatically in case of overload or short-circuit to ensure safety. If this occurs, identify and resolve the issue before resetting the breaker.
- Use only low-voltage landscape lighting fixtures with this transformer.
- Do not attempt to open or modify the transformer housing. There are no user-serviceable parts inside.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- treewell 300W Low Voltage Landscape Transformer
- Mounting screws
- Mounting hole template

- 6ft SJTW 18AWG power cord (pre-attached)

4. PRODUCT FEATURES

- **Voltage Conversion:** Converts 120V AC household voltage to safe 12V AC or 15V AC. The 15V output is designed to compensate for voltage drops over longer wire runs, ensuring consistent light output.
- **Multi-Tap Outputs:** Features 2 common terminals and 4 terminals for 12V and 15V outputs, allowing for the connection of multiple lighting lines.
- **Photocell Sensor:** A built-in dusk-to-dawn sensor automatically activates the lights at sunset and deactivates them at sunrise.
- **Countdown Timer:** A programmable timer allows the lights to turn on at dusk and automatically turn off after a user-selected duration of 1 to 9 hours.
- **Durable Construction:** Constructed with heavy-duty 304 stainless steel housing, providing scratch, corrosion, and heat resistance, as well as rustproof performance for harsh outdoor environments.
- **User-Friendly Operation:** An intuitive digital display and simple button controls facilitate easy mode selection and programming.
- **Memory Function:** The transformer retains its last selected operating mode after a power outage, eliminating the need for resetting.
- **Safety Certified:** ETL Listed, ensuring compliance with safety standards. Includes an automatic circuit breaker for protection against overload and short-circuits.

300W Low Voltage Transformer

Convert 120V AC to 12V 15V AC



Manual ON/OFF



Photocell Sensor



Countdown Timer



Memory Function



ETL



This image displays the treewell 300W Low Voltage Landscape Transformer, highlighting its key functionalities such as manual control, photocell sensor, countdown timer, memory function, and ETL safety listing.

5. SPECIFICATIONS

Specification	Detail
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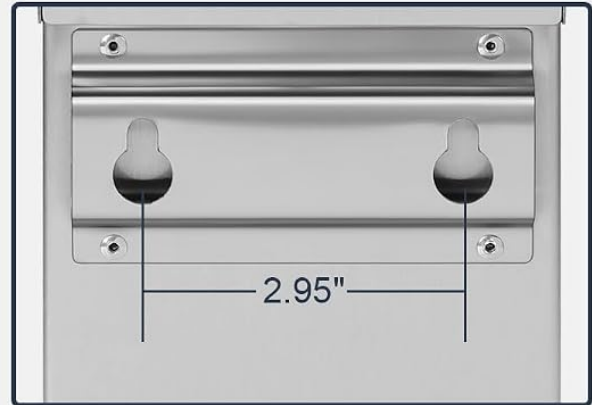
Model Number	TSLT03A
Input Voltage	120V AC
Output Voltage	12V AC / 15V AC
Max Wattage	300W
Material	304 Stainless Steel
Dimensions (L x W x H)	12.7 x 11.18 x 22.86 cm (5 x 4.4 x 9 inches)
Item Weight	5.86 kg (12.92 lbs)
Power Source	Corded Electric
Mounting Type	Wall Mount
Certifications	ETL Listed
Compatible Bulb Types	Incandescent/Halogen/LED

6. SETUP AND INSTALLATION

6.1 Mounting the Transformer

The transformer is designed for secure wall mounting. Use the provided mounting hole template and screws for installation.

1. Choose a suitable outdoor location near a 120V AC GFCI-protected outlet. Ensure the transformer is mounted in a location that protects it from direct water spray and allows for easy access to controls and wiring.
2. Use the provided mounting hole template to mark the drilling points on the desired mounting surface.
3. Drill pilot holes at the marked locations.
4. Securely attach the transformer to the wall using the provided mounting screws.



**6FT SJTW 18AWG
Heavy Duty Cord**



This image illustrates the physical dimensions (9" H x 5" L x 4.4" W) of the transformer, a mounting hole template for easy installation, and the included 6ft SJTW 18AWG power cord.

6.2 Wiring the Landscape Lights

The transformer features finger-safe, compression-style terminals for connecting low-voltage landscape wiring. These terminals can accept up to four 10AWG wires.

1. Before making any connections, ensure the transformer is unplugged from the 120V AC power outlet.

2. Strip approximately 1/2 inch (1.27 cm) of insulation from the ends of your low-voltage landscape lighting wires.
3. Connect the common wires from your lighting system to the 'COM' terminals.
4. Connect the positive wires from your lighting system to either the '12V' or '15V' terminals. For longer wire runs (typically over 100 feet), using the '15V' terminals is recommended to compensate for voltage drop and maintain optimal light brightness.
5. Ensure all connections are tight and secure within the terminals.
6. Once all wiring is complete, plug the transformer's power cord into a GFCI-protected 120V AC outlet.

Multi-tap Voltage Terminal

Finger-safe, compression-style terminal

Terminals can accept max four 10AWG wires



A view of the transformer's wiring terminals, featuring finger-safe, compression-style connections for multiple 10AWG wires. It includes common terminals, 12V and 15V AC outputs to compensate for voltage drops, and an integrated circuit breaker for safety.

7. OPERATING INSTRUCTIONS

The transformer features an intuitive digital control panel for setting various operating modes.



This image provides a detailed view of the transformer's intuitive control panel, including the digital display and 'UP'/'DOWN' buttons for selecting modes like 'Always On', 'Auto On/Off (Dusk-to-Dawn)', and 'Countdown Timer'.

7.1 Mode Selection

Press the "UP" or "DOWN" button repeatedly to cycle through the available operating modes, which will be displayed on the digital screen:

- **0 (Always On):** The connected landscape lights will remain on continuously, regardless of ambient light conditions.

- **A (Auto On/Off - Dusk-to-Dawn):** The built-in photocell sensor will automatically turn the lights on at sunset and off at sunrise. This mode is ideal for automatic, hands-free operation.
- **D (Manual On/Off):** This mode allows for manual control of the lights using the ON/OFF button on the control panel.
- **1 through 9 (Countdown Timer):** In this mode, the lights will turn on at dusk (triggered by the photocell) and automatically turn off after the set number of hours (from 1 to 9 hours). Select the desired duration by pressing the UP/DOWN buttons.
- **OFF:** The connected landscape lights will remain off.



Photocell Sensor

Landscape lights will automatically turn on at dusk, and turn off at sunrise



The transformer is shown in an outdoor setting with landscape lights, demonstrating how the photocell sensor automatically activates the lights at dusk and deactivates them at sunrise.

7.2 Memory Function

The transformer is equipped with a memory function. In the event of a power outage, the unit will retain its last selected operating mode. No resetting is required once power is restored.

8. MAINTENANCE

The treewell landscape transformer is constructed from durable stainless steel, requiring minimal maintenance to ensure long-term performance.

- **Regular Inspection:** Periodically inspect the transformer, its power cord, and all connected wiring for any signs of damage, wear, or corrosion. Address any issues promptly.
- **Cleaning:** Clean the exterior of the transformer with a soft, damp cloth as needed to remove dirt or debris. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the stainless steel finish.
- **Photocell Sensor:** Ensure the photocell sensor (located on the front panel) is kept clean and free from obstructions such as dirt, leaves, or snow. An obstructed sensor can interfere with proper dusk-to-dawn operation.

Heavy Duty 304 Stainless Steel Shell

Suitable for use in harsh outdoor environments



Scratch
Resistance



Corrosion
Resistance



Heat Resistance



Rustproof

The transformer is depicted outdoors during rain, showcasing its robust 304 stainless steel construction, which provides scratch, corrosion, heat resistance, and rustproof properties for harsh environments.

9. TROUBLESHOOTING

If you encounter issues with your treewell landscape transformer, refer to the following troubleshooting guide:

- **Lights not turning on:**

- Ensure the transformer's power cord is securely plugged into a working 120V AC GFCI-protected outlet.
- Verify that the selected operating mode is not set to 'OFF'.
- Inspect all low-voltage wiring connections at the transformer terminals and at each light fixture for looseness or damage.
- Check if the internal circuit breaker has tripped. If so, reset it after identifying and resolving any overload or short-circuit in the lighting system.
- If using 'Auto' or 'Countdown Timer' modes, ensure the photocell sensor is clean and exposed to ambient light.

• **Lights staying on/off at incorrect times:**

- If using 'Auto' or 'Countdown Timer' modes, ensure the photocell sensor is clean and not obstructed by objects, dirt, or shadows that might mimic dusk/dawn conditions.
- Verify that the correct operating mode is selected on the control panel.

• **Lights flickering or dim:**

- Check for loose or corroded wiring connections at the transformer and light fixtures.
- Ensure the total wattage of all connected lights does not exceed the transformer's 300W capacity. Remove some lights if overloaded.
- For longer wire runs, ensure you are utilizing the 15V output terminals to compensate for voltage drop.
- Verify that the light bulbs are compatible with low-voltage systems and are in good working condition.

10. WARRANTY AND SUPPORT

For specific warranty information, terms, and conditions, please refer to the documentation included with your purchase or visit the official treewell website. If you require technical assistance, troubleshooting beyond this manual, or have questions regarding your product, please contact treewell customer service. Contact details can typically be found on the product packaging or the manufacturer's website.

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