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› treewell 300W Low Voltage Landscape Transformer User Manual (Model TSLT03B)

treewell TSLT03B

treewell 300W Low Voltage Landscape Transformer User Manual

Model: TSLT03B

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your treewell 300W Low Voltage Landscape Transformer. This transformer is designed to convert 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.



Image: The treewell 300W Low Voltage Landscape Transformer, showcasing its compact design and control panel.

Safety Information

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 Hazard:** Always disconnect power at the circuit breaker before installing or servicing the transformer.

- **Outdoor Use Only:** This transformer is designed for outdoor use and must be mounted in a location protected from direct water spray.
- **Proper Grounding:** Ensure the transformer is properly grounded according to local electrical codes.
- **Wire Gauge:** Use appropriate low-voltage wire gauge for your lighting system to prevent voltage drop and overheating. Refer to the specifications for terminal capacity.
- **Overload Protection:** The transformer includes a circuit breaker for overload and short-circuit protection. Do not bypass or tamper with this safety feature.
- **Mounting:** Mount the transformer at least 1 foot (30 cm) above ground level to prevent water damage.

PACKAGE CONTENTS

Verify that all items are present in the package:

- treewell 300W Low Voltage Landscape Transformer
- Mounting Screws
- Mounting Hole Template
- User Manual (this document)

PRODUCT FEATURES

The treewell 300W Low Voltage Landscape Transformer offers the following key features:

- **Voltage Conversion:** Converts 120V AC input to 12V AC or 15V AC output, suitable for various low-voltage landscape lighting fixtures. The 15V output compensates for voltage drops over longer wire runs.
- **Photocell Sensor:** Built-in dusk-to-dawn sensor automatically turns lights on at sunset and off at sunrise.
- **Countdown Timer:** Programmable timer allows lights to turn off 1, 2, 3, 4, 5, 6, 7, 8, or 9 hours after dusk.
- **Memory Function:** Retains the last mode setting after a power outage, eliminating the need for re-programming.
- **Durable Construction:** Constructed with a 304 stainless steel housing and black waterproof coating for corrosion, heat, and rust resistance, ensuring longevity in outdoor environments.
- **Safety Certified:** ETL Listed, providing assurance of safety and quality standards. Includes an automatic circuit breaker for overload and short-circuit protection.
- **Multi-tap Terminals:** Features common, 12V, and 15V terminals, allowing for multiple lighting zones and flexible wiring configurations. Terminals accept up to 10AWG wires.

300W Low Voltage Transformer

Convert 120V AC to 12V 15V AC



Manual ON/OFF



Photocell Sensor



Countdown Timer



Memory Function



ETL



Image: Visual representation of the transformer's key features including manual control, photocell, timer, memory, and ETL certification.

Heavy Duty 304 Stainless Steel Shell

- Suitable for use in harsh outdoor environments
- Much longer lifespan than traditional metal transformers



Weatherproof



Corrosion Resistance



Heat Resistance



Rustproof

Image: Diagram illustrating the robust construction of the transformer with a 304 stainless steel shell and black waterproof coating, highlighting its weather, corrosion, heat, and rust resistance.

SETUP AND INSTALLATION

Follow these steps for proper installation of your landscape transformer:

1. **Choose a Mounting Location:** Select a suitable outdoor location near a 120V AC GFCI (Ground Fault Circuit Interrupter) protected outlet. The location should be protected from direct water spray and allow for proper ventilation. Mount the

transformer at least 1 foot (30 cm) above ground level.

2. **Mount the Transformer:** Use the provided mounting hole template to mark the drilling points on the wall or post. Drill pilot holes and secure the transformer using the included mounting screws.
3. **Connect Low-Voltage Wiring:** Route your low-voltage landscape lighting cables to the transformer. Strip approximately 1/2 inch (1.27 cm) of insulation from the ends of the low-voltage wires. Insert the bare wires into the appropriate terminals (Common, 12V, or 15V) and tighten the screws securely. The terminals are compression-style and can accept up to 10AWG wires. Ensure all connections are tight to prevent arcing and ensure proper conductivity.
4. **Power Connection:** Plug the transformer's 6ft SJTW 18AWG heavy-duty cord into a GFCI-protected 120V AC outlet.



Image: Details on mounting the transformer using the provided template and screws, along with the 6ft SJTW 18AWG heavy-duty power cord.

Multi-tap Voltage Terminal

Finger-safe, compression-style terminal

Terminals can accept max four 10AWG wires

Circuit Breaker

Short-circuit protection

12V 15V AC Output

Compensating voltage drops
on longer wires



Compression-style Terminal

Image: Close-up view of the multi-tap voltage terminals (Common, 12V, 15V) and the integrated circuit breaker for short-circuit protection. The terminals are finger-safe and compression-style, accepting up to 10AWG wires.

OPERATING INSTRUCTIONS

The transformer features an intuitive digital display and control buttons for setting operating modes.



Intuitive Visible Operation

- Press ▲ ▼ to set Always On/Auto/Countdown Timer/OFF mode in turn
- Memory function: It retains last mode setting after power outage, no need resetting.



0 = Always On



A = Auto On/Off,
"Dusk to Dawn"



1 Through 9 =
On at dusk, Off
at 1 to 9 hours

Image: The digital display and control buttons, showing how to select different operating modes: '0' for Always On, 'A' for Auto On/Off (Dusk-to-Dawn), and '1' through '9' for Countdown Timer.

1. **Power On:** Once plugged in, the transformer will power on.
2. **Setting the Mode:** Press the "▲" or "▼" button repeatedly to cycle through the available functions/modes displayed on the digital screen:
 - **0 (Always On):** The lights will remain on continuously.

- **A (Auto On/Off - Dusk-to-Dawn):** The built-in photocell sensor will automatically turn the lights on at dusk and off at dawn.
 - **1 through 9 (Countdown Timer):** The lights will automatically turn on at dusk and turn off after the selected number of hours (1 to 9 hours).
 - **OFF:** The lights will remain off.
3. **Memory Function:** The transformer is equipped with a memory function. In the event of a power interruption, the transformer will automatically resume its last selected operating mode once power is restored. No re-setting is required.



Photocell Sensor

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



Image: An example of landscape lights automatically turning on at dusk, demonstrating the functionality of the photocell sensor.

MAINTENANCE

To ensure optimal performance and longevity of your treewell landscape transformer, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically wipe the exterior of the transformer with a damp cloth to remove dirt and debris. Ensure the photocell sensor is clean and unobstructed for proper dusk-to-dawn operation.
- **Inspect Wiring:** Annually inspect all low-voltage wiring connections for corrosion or damage. Tighten any loose connections.
- **Ventilation:** Ensure the area around the transformer remains clear to allow for adequate ventilation and prevent overheating.
- **Avoid Harsh Chemicals:** Do not use abrasive cleaners or solvents on the transformer's housing.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Lights do not turn on.	• No power to the transformer. • Circuit breaker tripped. • Incorrect mode setting. • Faulty low-voltage wiring or fixture. • Photocell obstructed or in bright light (in AUTO mode).	• Check the 120V AC outlet and GFCI. • Reset the circuit breaker on the transformer. • Verify the operating mode (e.g., not in OFF mode). • Inspect low-voltage wiring for breaks or loose connections. Test individual fixtures. • Ensure photocell is clean and exposed to darkness.
Lights stay on continuously (in AUTO or Timer mode).	• Photocell sensor is faulty or obstructed. • Transformer set to '0' (Always On) mode.	• Clean the photocell sensor. Ensure it is not covered or exposed to artificial light at night. • Change the operating mode to 'A' (Auto) or a countdown timer setting.
Lights flicker or are dim.	• Voltage drop due to long wire runs or insufficient wire gauge. • Loose wiring connections. • Overloaded transformer.	• Use the 15V output terminals for longer wire runs. Consider using heavier gauge wire. • Check and tighten all low-voltage wiring connections. • Reduce the total wattage of connected lights or upgrade to a higher wattage transformer if consistently overloaded.
Circuit breaker trips repeatedly.	• Overload (too many lights connected). • Short circuit in the low-voltage wiring or a fixture.	• Calculate the total wattage of your lights and ensure it does not exceed 300W. Disconnect some lights if overloaded. • Inspect all low-voltage wiring for cuts, pinches, or exposed wires that could cause a short. Check individual fixtures for internal shorts.

SPECIFICATIONS

Specification	Detail
Model Number	TSLT03B
Power Rating	300W
Input Voltage	120V AC
Output Voltage	12V AC / 15V AC
Frequency	50-60 Hz
Housing Material	304 Stainless Steel with Waterproof Coating
Mounting Type	Wall Mount
Power Cord	6ft SJTW 18AWG Heavy Duty Cord
Certifications	ETL Listed
Dimensions (L x W x H)	30.61 x 19.89 x 19.2 cm (approx. 12.05 x 7.83 x 7.56 inches)
Weight	5.89 kg (approx. 13 lbs)

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official treewell website. Keep your purchase receipt as proof of purchase for any warranty claims.

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Details

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

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