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› Brilliantool 150W Low Voltage Landscape Transformer User Manual

Brilliantool be6efdd4-a311-40e2-855b-ea2670068ee2

Brilliantool 150W Low Voltage Landscape Transformer User Manual

Model: be6efdd4-a311-40e2-855b-ea2670068ee2

1. INTRODUCTION

Thank you for choosing the Brilliantool 150W Low Voltage Landscape Transformer. This device is designed to convert standard 120V AC household voltage to a safe 12V/15V AC output, ideal for various outdoor low-voltage lighting applications such as landscape lights, path lights, buried lights, and spotlights. It features a durable stainless steel casing, a built-in photocell sensor, and a programmable timer for automated operation.



Image 1.1: Front view of the Brilliantool 150W Low Voltage Landscape Transformer with attached power cord.

2. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Risk of Electric Shock:** Do not immerse the transformer in water. Do not install within 10 feet of a pool, spa, or fountain.
- **Grounding:** Mount the transformer at least 1 foot above the ground. Ensure proper grounding to a GFI socket.
- **Wiring:** All wiring connections must be made by a qualified electrician and comply with local electrical codes. Do not exceed the maximum load capacity of 150W.
- **Overload Protection:** The built-in automatic circuit breaker will automatically power off the unit in case of abnormal operation or overload.
- **Outdoor Use:** This transformer is suitable for indoor or outdoor use. The casing is made of 304 stainless steel for durability and corrosion resistance.



Image 2.1: Side view displaying important safety warnings and specifications.

3. PRODUCT OVERVIEW AND FEATURES

The Brilliantool 150W Low Voltage Landscape Transformer is designed for reliable and efficient outdoor lighting control. Key features include:

- **Power Output:** Converts 120V AC to 12V/15V AC.
- **Wattage:** 150 Watts maximum load.
- **Material:** Durable 304 stainless steel casing for weather resistance.
- **Safety:** ETL certified with a built-in automatic circuit breaker.
- **Photocell Sensor:** Automatically detects ambient light for dusk-to-dawn operation.
- **Programmable Timer:** Allows for timed operation from 1 to 9 hours after dusk.
- **Memory Function:** Retains the last setting after a power outage.

- **Dual COM Interface:** Provides multiple common terminals for easier wiring.
- **Power Cord:** 6-foot 18AWG power cord for flexible installation.



Image 3.1: Product dimensions (4.3 x 4.4 x 7.2 inches) and 6-foot power cord length.

4. SETUP AND INSTALLATION

4.1 Mounting the Transformer

1. Select a suitable location for mounting the transformer. It should be at least 1 foot above the ground and away from direct water sources.
2. Use the two mounting holes on the back of the unit to securely attach it to a wall or sturdy surface. Ensure the mounting is stable.



Image 4.1: Illustration of mounting holes and wiring terminal block.

4.2 Wiring Connections

1. Ensure the transformer is unplugged from the power source before making any connections.
2. Locate the wiring terminal block at the bottom of the transformer. It includes terminals for 12V, 15V, and COM (Common).
3. Connect your low-voltage landscape lighting wires to the appropriate terminals. For most LED lighting, use the 12V terminal. If your lights require higher voltage or for longer wire runs, the 15V terminal can be used.
4. Connect the common wire from your lighting system to one of the COM terminals. The dual COM ports allow for connecting multiple lighting runs.
5. Tighten all terminal screws securely to ensure good electrical contact.
6. Once wiring is complete, plug the transformer into a grounded GFI (Ground Fault Interrupter) outlet.



Image 4.2: Close-up of the 12V, 15V, and COM wiring terminals.

5. OPERATING INSTRUCTIONS

The transformer features a control panel with a digital display and two buttons (▲ UP, ▼ DOWN) for setting the operating mode and timer.



Image 5.1: Detailed view of the control panel for setting modes and timer.

5.1 Setting Operating Modes

Press the ▲ UP or ▼ DOWN buttons repeatedly to cycle through the available operating modes:

- **O (Manual On/Off):** In this mode, the lights will remain on continuously until manually turned off, or off continuously until manually turned on. The photocell sensor is not active.
- **R (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 (Timed Operation):** The photocell sensor will turn the lights on at dusk, and the timer will turn them off after the set number of hours (1 to 9 hours). For example, '6' means the lights will turn off 6 hours after dusk.



Image 5.2: Visual representation of the transformer's operating modes.

5.2 Photocell Sensor Functionality

The integrated photocell sensor automatically detects ambient light levels. When in 'R' (Dusk-to-Dawn) or '1-9' (Timed Operation) modes, the sensor will activate the lights when it gets dark and deactivate them when it gets light (or after the set timer duration).



Image 5.3: Explanation of the photocell sensor's automatic dusk-to-dawn function.

5.3 Memory Function

The transformer is equipped with a memory function. In the event of a power interruption, the unit will retain its last programmed setting (mode and timer duration) and resume operation automatically once power is restored.

6. MAINTENANCE

To ensure optimal performance and longevity of your Brilliantool Low Voltage Landscape Transformer, follow these maintenance guidelines:

- **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.
- **Photocell Sensor:** Keep the photocell sensor clean and free from obstructions (e.g., leaves, dirt) to ensure accurate light detection.
- **Connections:** Annually inspect all wiring connections for tightness and signs of corrosion. Re-tighten if necessary.
- **Placement:** Ensure the transformer remains securely mounted and that its ventilation openings are not blocked.



Image 6.1: The waterproof design of the transformer ensures durability in outdoor environments.

7. TROUBLESHOOTING

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

- **Lights Not Turning On:**

- Check if the transformer is plugged into a working GFI outlet.
- Verify that the operating mode is set correctly (e.g., 'R' for dusk-to-dawn, or a timed setting).
- Inspect all wiring connections for looseness or corrosion.
- Ensure the total wattage of your lights does not exceed 150W. An overload will trip the circuit breaker.
- Clean the photocell sensor if it appears obstructed.

- **Lights Staying On/Off Continuously:**

- Check the operating mode. If set to 'O', it is manual.

- For 'R' or timed modes, ensure the photocell sensor is not blocked or exposed to artificial light at night.

- **Lights Flickering:**

- Check for loose wiring connections.
- Ensure the total wattage of your lights is within the transformer's capacity.

If problems persist after troubleshooting, contact Brilliantool customer support for assistance.

8. SPECIFICATIONS

Feature	Specification
Product Dimensions	4.3 x 4.4 x 7.2 inches
Weight	7.94 Pounds
Model Number	be6efdd4-a311-40e2-855b-ea2670068ee2
Input Voltage	120V AC
Output Voltage	12V/15V AC
Max Wattage	150 Watts
Current Rating	3 Amps
Power Source	Corded Electric
Mounting Type	Wall Mount
Certifications	ETL Certification
Manufacturer	Brilliantool

9. WARRANTY AND SUPPORT

Brilliantool stands behind the quality of its products. For warranty information, technical support, or any questions regarding your 150W Low Voltage Landscape Transformer, please refer to the contact information provided with your purchase or visit the official Brilliantool website.

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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