DEWENWILS Low Voltage Landscape Transformer

DEWENWILS Low Voltage Landscape Transformer User Manual

Model: Low Voltage Landscape Transformer

1. Introduction

Thank you for choosing the DEWENWILS Low Voltage Landscape Transformer. This device is designed to convert standard 120V AC household voltage to a safe 12V or 15V AC low voltage, ideal for powering outdoor landscape lighting systems. It features a built-in photocell sensor for automatic dusk-to-dawn operation and multiple timer settings for enhanced control and energy efficiency. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

2. Safety Information

WARNING: To reduce the risk of fire or electric shock, observe the following precautions:

- Always disconnect power at the circuit breaker before installing or servicing the transformer.
- This transformer is designed for outdoor use and must be mounted vertically on a wall or post.
- Do not immerse the transformer in water. Ensure it is installed in a location that prevents water accumulation.
- Do not connect two or more transformers in parallel.
- Ensure the total wattage of connected fixtures does not exceed the transformer's maximum output (e.g., 60W or 150W, depending on model).
- Use only low voltage landscape lighting fixtures with this transformer.
- All wiring should comply with local electrical codes.
- The transformer is equipped with overload and short circuit protection. If an overload occurs, the circuit breaker will trip.

3. Package Contents

- DEWENWILS Low Voltage Landscape Transformer
- Instruction Manual

- Mounting hardware (screws, anchors) - *(Inferred)*

4. Product Overview

The DEWENWILS Low Voltage Landscape Transformer features a robust, weatherproof casing designed for outdoor environments. It includes a control panel for setting operational modes and a terminal block for connecting low voltage lighting cables.



Image 4.1: Overview of the DEWENWILS Low Voltage Landscape Transformer, showing the main unit and a separate control panel for a different model. The primary model features an integrated control panel.



Image 4.2: Close-up of the transformer's control panel, displaying the digital clock, AM/PM indicator, and indicators for the five operational modes: Manual, Auto, Photo ON Timer OFF, Timer ON/OFF, and Test. Buttons for MENU, Up, Down, and OK are visible.

Key Components:

- **Photocell Sensor:** Detects ambient light levels for automatic dusk-to-dawn operation.
- **Control Panel:** Digital display and buttons for setting time and operational modes.
- **Terminal Block:** Connects low voltage landscape lighting cables (12V/15V AC output).
- **Circuit Breaker:** Provides overload and short circuit protection.

- **Power Cord:** Connects the transformer to a standard 120V AC outlet.

5. Installation

5.1 Mounting the Transformer

1. Choose 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.
2. Mount the transformer vertically on a sturdy wall or post using appropriate screws and anchors (not included). Ensure the mounting is secure.

5.2 Wiring Landscape Lights

Before wiring, ensure the transformer is unplugged from the power outlet.

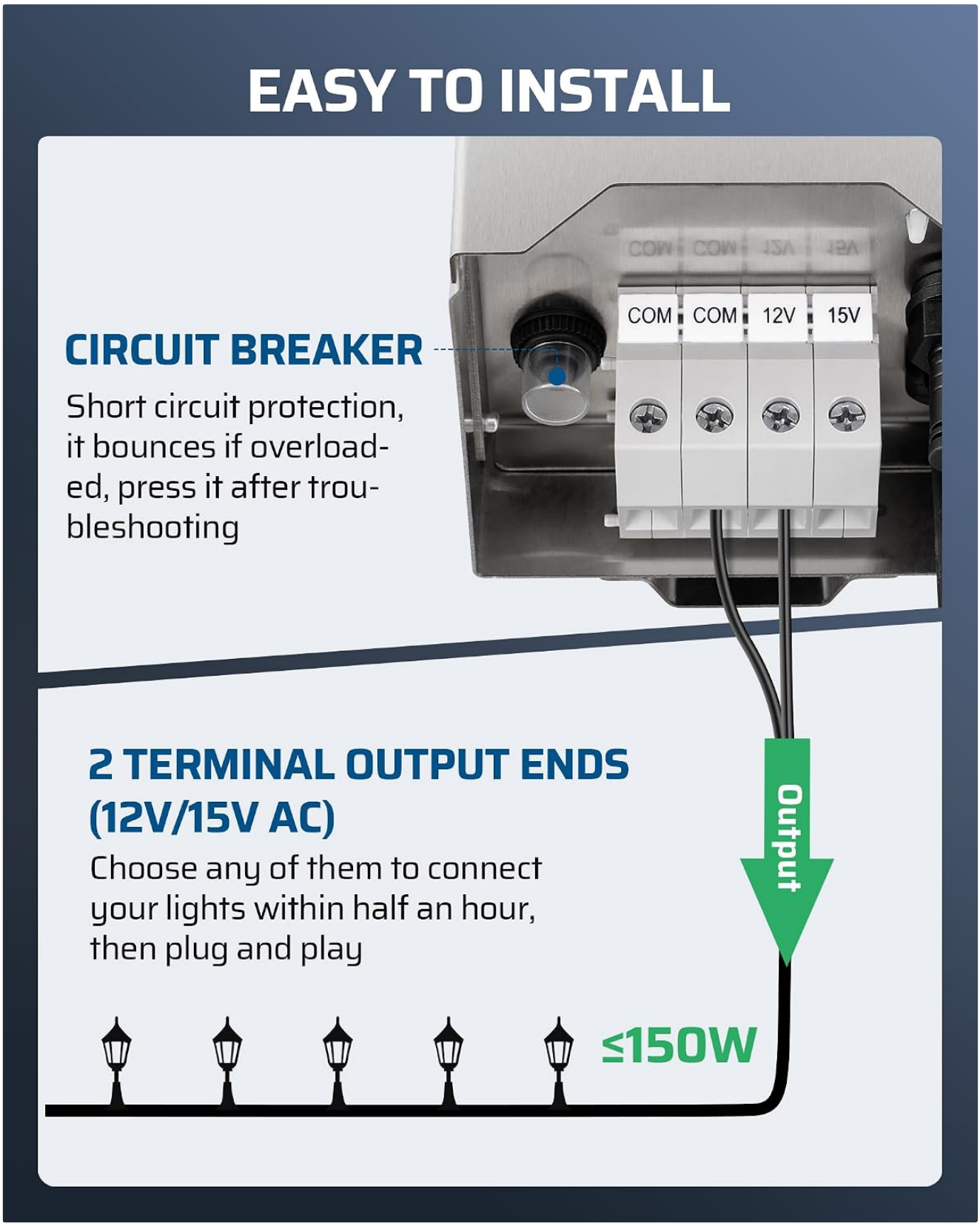


Image 5.1: Diagram showing the wiring terminals (COM, 12V, 15V) and the circuit breaker button on the DEWENWILS transformer. It illustrates connecting low voltage lighting cables to the output terminals.

1. Route your low voltage landscape lighting cable from your fixtures to the transformer.
2. Strip approximately 1/2 inch of insulation from the ends of your low voltage cable.
3. Connect the low voltage cable to the terminal block on the transformer. You can choose between the **12V AC** or **15V AC** output terminals, along with the **COM** (Common) terminal.
    - For shorter cable runs or fewer lights, 12V AC is typically sufficient.
    - For longer cable runs or more lights, 15V AC can help compensate for voltage drop.

4. Ensure all connections are tight and secure.
5. Once wiring is complete, plug the transformer's power cord into the GFCI-protected 120V AC outlet.

Important: The total wattage of all connected lights must not exceed the transformer's maximum output (e.g., 60W or 150W). Refer to the specifications section for your specific model's wattage.

6. Operation

6.1 Setting the Current Time

Upon initial power-up or after a power outage, the clock may need to be set.

1. Press the "MENU" button until the clock display flashes.
2. Use the " ∧ " (Up) and " ∨ " (Down) buttons to adjust the hour. Pay attention to the AM/PM indicator.
3. Press "OK" to confirm the hour and move to minutes.
4. Use the " ∧ " and " ∨ " buttons to adjust the minutes.
5. Press "OK" to save the time setting.

6.2 Selecting Operating Modes

Press the "MENU" button repeatedly to cycle through the five available operating modes. The active mode will be indicated on the display.



Image 6.1: Illustration of the transformer's automatic (photocell sensor) and countdown timer functions, showing lights turning on at dusk and off after 4, 6, or 8 hours.



Image 6.2: Visual representation of the photocell sensor, indicating how it detects light levels to automatically switch landscape lighting on at dusk and off at dawn.

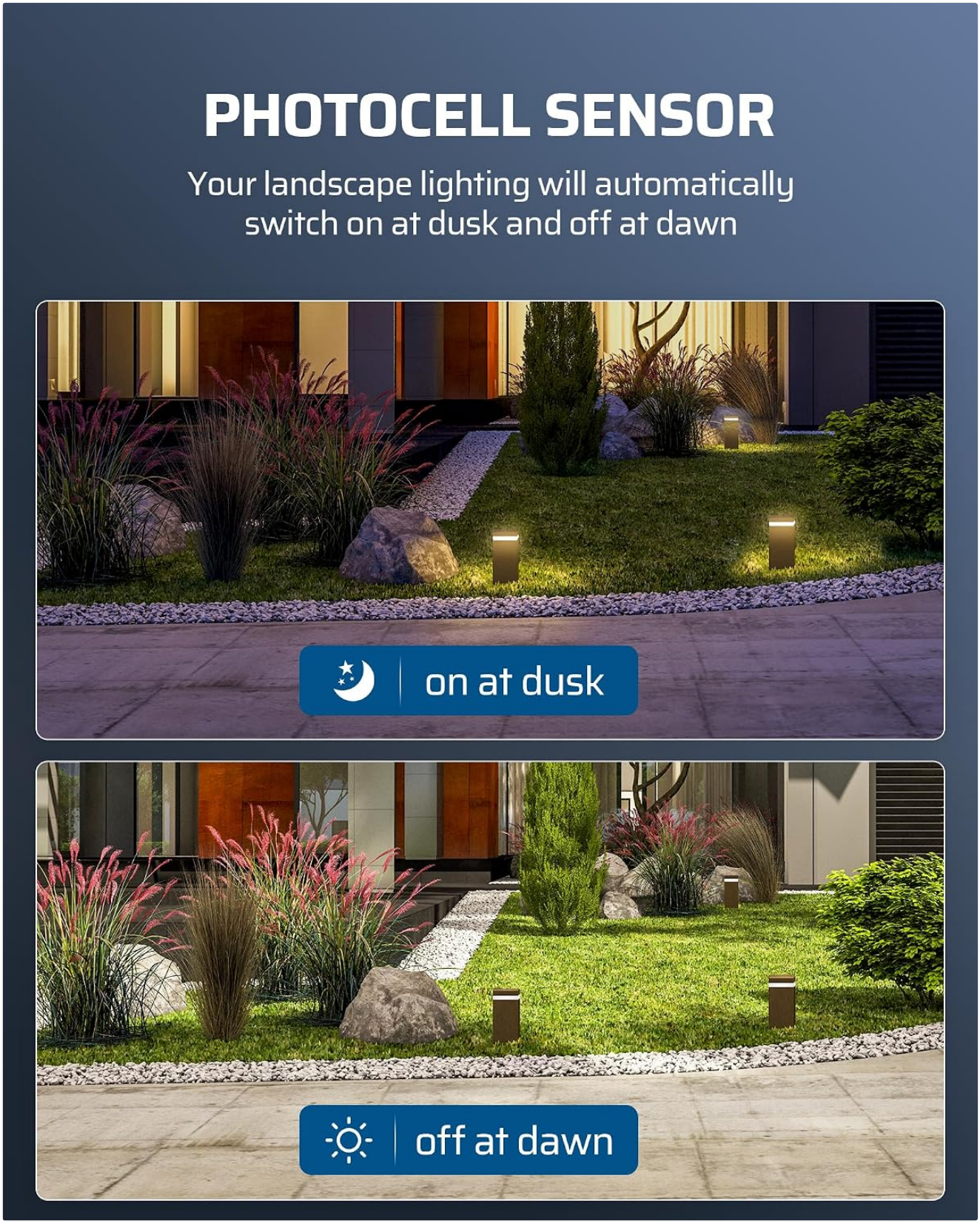


Image 6.3: Depiction of landscape lights turning on at dusk and off at dawn, demonstrating the automatic functionality of the photocell sensor.

1. **Manual ON/OFF:**
    - In this mode, the lights are controlled manually. Press "OK" to toggle the lights ON or OFF. The photocell sensor and timer functions are inactive.
2. **Auto ON/OFF (Dusk to Dawn):**
    - The built-in photocell sensor will automatically turn the landscape lights ON at dusk and OFF at dawn. This mode provides continuous illumination during nighttime hours.

3. **Photo ON Timer OFF (Dusk to X Hours):**
    - In this mode, the lights will turn ON automatically at dusk. You can then set a countdown timer for 4, 6, or 8 hours. The lights will turn OFF after the selected duration.
    - To set the timer: While in "Photo ON Timer OFF" mode, press "OK". Use the " ∧ " and " ∨ " buttons to select 4H, 6H, or 8H. Press "OK" to confirm.
4. **Timer ON/OFF:**
    - This mode allows you to set specific ON and OFF times for your lights, independent of the photocell sensor.
    - To set ON time: Press "OK" when "Timer ON/OFF" is selected. The ON time will flash. Use " ∧ " and " ∨ " to adjust hour/minutes, then "OK" to confirm.
    - To set OFF time: After setting ON time, the OFF time will flash. Use " ∧ " and " ∨ " to adjust hour/minutes, then "OK" to confirm.
5. **Test Mode:**
    - This mode allows you to quickly test the functionality of the photocell sensor. The lights will turn on if the sensor detects darkness and off if it detects light. This is useful for verifying sensor placement and operation.

Memory Function: The transformer will retain the last selected operating mode even after a power interruption.

7. Maintenance

The DEWENWILS Low Voltage Landscape Transformer requires minimal maintenance.

- Periodically inspect the transformer and wiring for any signs of damage, wear, or loose connections.
- Keep the photocell sensor clean and free from obstructions (e.g., dirt, leaves, snow) to ensure accurate dusk-to-dawn operation.
- Clean the exterior of the transformer with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

8. Troubleshooting

If you encounter issues with your DEWENWILS Low Voltage Landscape Transformer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on.	No power to the transformer. Circuit breaker tripped. Incorrect operating mode selected. Photocell sensor obstructed or faulty. Loose wiring connections. Total wattage of lights exceeds transformer capacity.	Check the 120V AC outlet and ensure the transformer is plugged in. Press the circuit breaker button to reset it. Verify the selected operating mode (e.g., Manual ON, Auto, Photo ON Timer OFF). Clear any obstructions from the photocell sensor. Test in "Test Mode". Inspect and tighten all low voltage wiring connections. Reduce the number of lights or replace with lower wattage bulbs.

Problem	Possible Cause	Solution
Lights stay on during the day.	Photocell sensor obstructed or dirty. Transformer installed in a shaded area. Incorrect operating mode selected.	Clean the photocell sensor. Relocate the transformer to an area with adequate daylight exposure. Ensure "Auto ON/OFF" or "Photo ON Timer OFF" mode is selected.
Lights turn off too early/late.	Photocell sensor sensitivity. Timer setting incorrect.	Ensure the photocell sensor is not exposed to artificial light sources at night. Verify the countdown timer setting (4H/6H/8H) or the ON/OFF times in "Timer ON/OFF" mode.

If the problem persists after attempting these solutions, please contact DEWENWILS customer support.

9. Specifications



Image 9.1: Diagram illustrating the function of the low voltage transformer, converting 120V AC input to 12V AC output, with a focus on a 60W model.

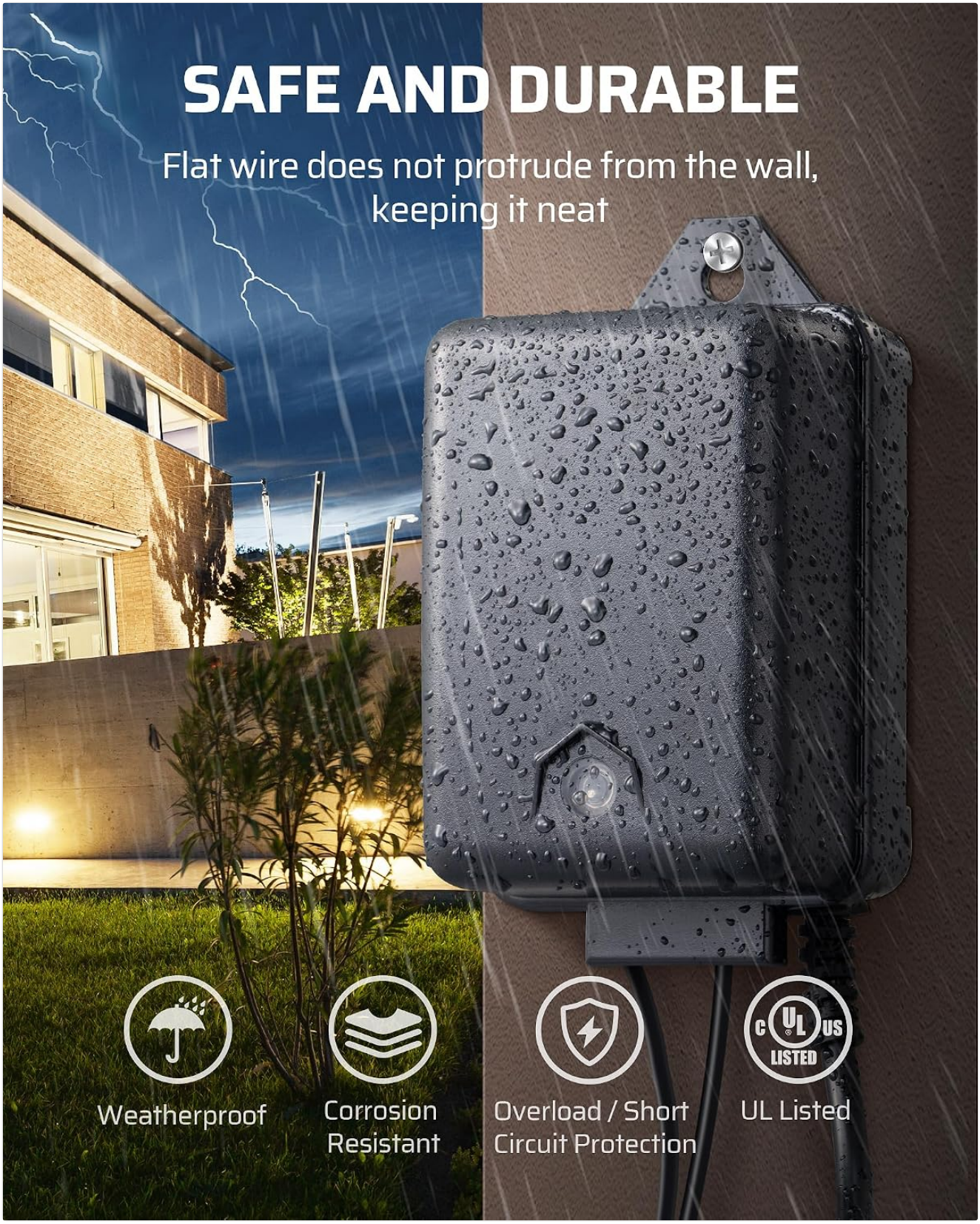


Image 9.2: Features of the DEWENWILS transformer highlighting its weatherproof, corrosion-resistant, overload/short circuit protection, and UL Listed certifications, indicating durability and safety.



Image 9.3: Image showing a stainless steel version of the DEWENWILS transformer with dimensions (3.9 in, 4.2 in, 7.1 in) and emphasizing its weatherproof, corrosion-resistant, and overload/short circuit protection features.

Feature	Detail
Brand	DEWENWILS
Input Voltage	120V AC

Feature	Detail
Output Voltage	12V AC / 15V AC
Power Source	Corded Electric
Mounting Type	Wall Mount
Protection	Overload / Short Circuit Protection (via Circuit Breaker)
Sensor	Built-in Dusk-to-Dawn Photocell Sensor
Timer Functions	4H/6H/8H Countdown, Manual ON/OFF, Auto ON/OFF, Photo ON Timer OFF, Timer ON/OFF, Test Mode
Material	Weatherproof, Corrosion Resistant (some models may feature Stainless Steel)

10. Warranty and Support

DEWENWILS products are designed for reliability and performance. For warranty information, technical support, or any questions regarding your Low Voltage Landscape Transformer, please visit the official DEWENWILS store or contact their customer service directly.

DEWENWILS Store: Visit the DEWENWILS Store on Amazon

Please have your product model and purchase information ready when contacting support.

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