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DEWENWILS HOSL02C

DEWENWILS 60W 24V DC Low Voltage Landscape Transformer Instruction Manual

1. Introduction

This manual provides detailed instructions for the safe installation, operation, and maintenance of your DEWENWILS 60W 24V DC Low Voltage Landscape Transformer (Model HOSL02C). Please read this manual thoroughly before using the product and retain it for future reference. Proper installation and use are essential for optimal performance and safety.

2. Product Overview

The DEWENWILS 60W 24V DC Low Voltage Landscape Transformer converts standard 120V AC household voltage to a safer 24V DC output, suitable for various outdoor lighting applications. It features an automatic photocell sensor for dusk-to-dawn operation and a programmable countdown timer.



Figure 2.1: Front view of the DEWENWILS 60W 24V DC Low Voltage Landscape Transformer, showing controls and power cord.

Key Features:

- **Voltage Conversion:** Converts 120V AC to 24V DC.
- **Photocell Sensor:** Automatic dusk-to-dawn operation.
- **Countdown Timer:** Programmable 2, 4, 6, or 8-hour timer.
- **Memory Function:** Retains last settings after power interruption.

- **Weatherproof Design:** Suitable for outdoor installation.
- **Safety Features:** Equipped with an automatic circuit breaker for overload and short-circuit protection.



Figure 2.2: Illustration of the transformer's function, converting 120V AC input to 24V DC output for low voltage lighting systems.

3. Specifications

Model Number	HOSL02C
Input Voltage	120V AC, 60Hz
Output Voltage	24V DC
Maximum Power Output	60W
Current Rating	2.5 Amps
Product Dimensions	2"D x 4"W x 4"H (5.08cm D x 10.16cm W x 10.16cm H)
Weight	1.28 Pounds (0.58 kg)
Mounting Type	Wall Mount
Certifications	ETL Certified

4. Setup and Installation

Ensure the transformer is installed in a location that is protected from direct water exposure and allows for proper ventilation. The unit is weatherproof but should not be submerged.

4.1 Mounting the Transformer

1. Select a suitable outdoor wall or sturdy surface for mounting.
2. Use the built-in hanging holes on the transformer to mark the drilling points.
3. Securely mount the transformer using appropriate screws and anchors (not included) for your chosen surface. Ensure it is firmly attached.

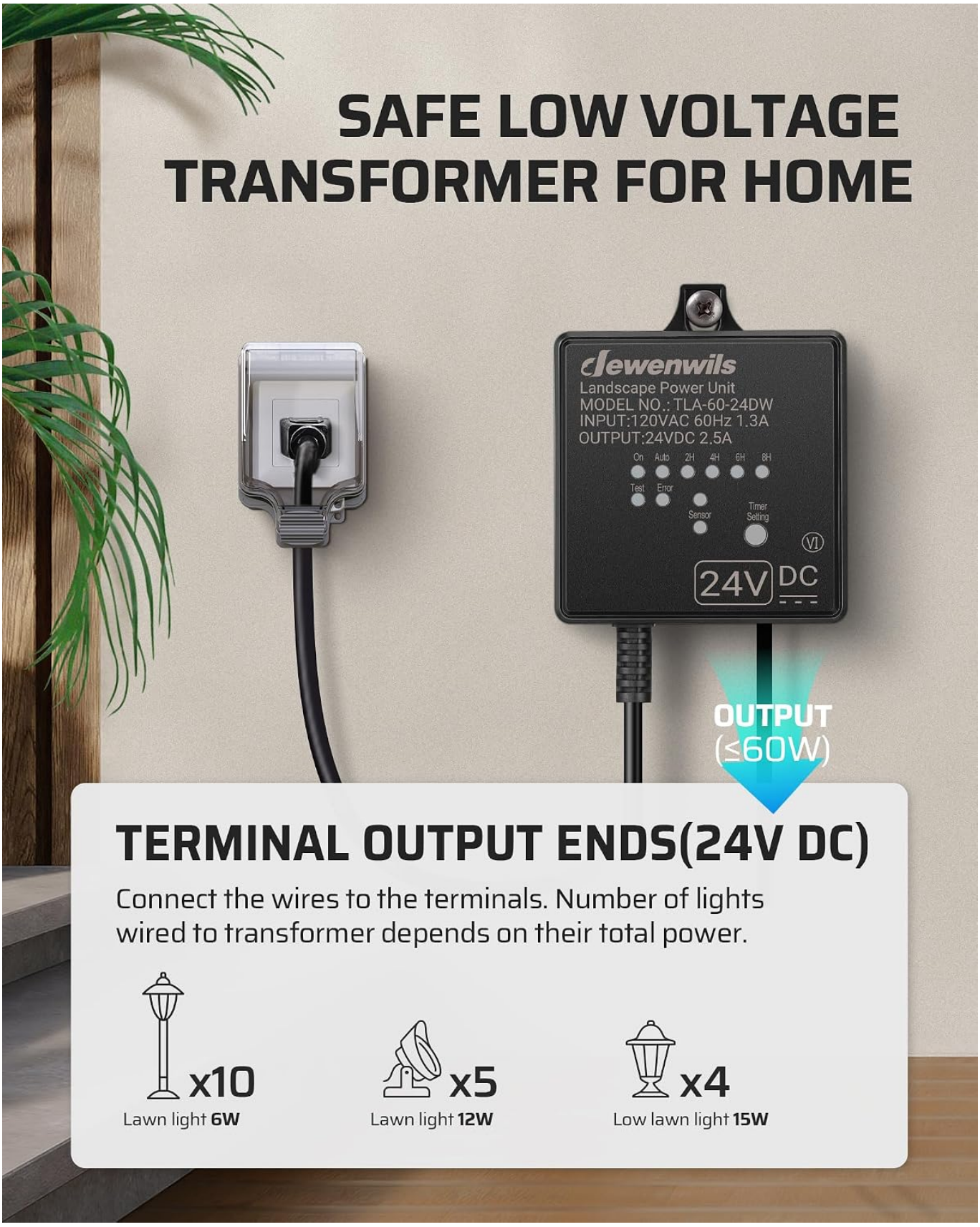


Figure 4.1: The transformer installed on an outdoor wall, showcasing its weatherproof construction.

4.2 Wiring the Landscape Lights

The transformer is designed for 24V DC low voltage landscape lights. Ensure the total wattage of all connected lights does not exceed 60W.

1. Turn off power to the outlet before making any connections.
2. Connect the red and black wires from your landscape lights to the terminal blocks on the transformer. Ensure

proper polarity (red to positive, black to negative if applicable, or follow light manufacturer's instructions).

3. Tighten the terminal screws to secure the wires.
4. Plug the transformer's power cord into a standard 120V AC outdoor-rated GFCI outlet.



Figure 4.2: Detailed view of the terminal block connections for landscape lighting wires.

5. Operating Instructions

The transformer offers both automatic dusk-to-dawn operation via its photocell sensor and a programmable countdown timer.

5.1 Photocell Sensor Operation (Dusk-to-Dawn)

The built-in photocell sensor automatically detects ambient light levels. When set to 'Auto' mode, the lights will turn on at dusk and turn off at dawn.

- Ensure the photocell sensor is not obstructed by objects or direct artificial light sources, as this can interfere with its operation.
- To activate, press the 'Timer Setting' button until the 'Auto' indicator light is illuminated.



Figure 5.1: Visual representation of the photocell sensor activating lights at dusk and deactivating them at dawn.

5.2 Countdown Timer Operation

The countdown timer allows you to set the lights to remain on for a specific duration after dusk.

1. Press the 'Timer Setting' button repeatedly to cycle through the available timer options: 2H (2 hours), 4H (4 hours), 6H (6 hours), 8H (8 hours).
2. The corresponding indicator light will illuminate to confirm your selection.

3. The lights will turn on at dusk and automatically turn off after the selected duration.



Figure 5.2: Close-up of the timer setting button and indicator lights for selecting countdown durations.

5.3 Memory Function

The transformer is equipped with a memory function. In the event of a power outage, the unit will retain the last set operating mode (Auto or a specific countdown timer setting) once power is restored.

6. Maintenance

Regular maintenance ensures the longevity and proper functioning of your transformer.

- **Cleaning:** Periodically wipe the exterior of the transformer with a soft, damp cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly inspect the power cord, output wires, and terminal connections for any signs of damage, fraying, or corrosion. Address any issues promptly.
- **Photocell Sensor:** Ensure the photocell sensor lens remains clean and unobstructed for accurate light detection.

7. Troubleshooting

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

- **Lights Not Turning On:**
  - Check if the transformer is properly plugged into a live outlet.
  - Verify that the photocell sensor is not obstructed or exposed to artificial light during dusk/night.
  - Ensure the operating mode (Auto or timer) is correctly selected.
  - Check all wiring connections for looseness or damage.
  - Confirm that the total wattage of connected lights does not exceed 60W.
- **Lights Not Turning Off:**
  - Ensure the photocell sensor is not obstructed, preventing it from detecting dawn.
  - If using the timer, verify the timer setting is correct and the unit is not stuck in 'On' mode.
- **Intermittent Operation:**
  - Inspect for loose wiring connections.
  - Check for power fluctuations at the outlet.
  - The automatic circuit breaker may have tripped due to overload or short circuit. Unplug the unit, disconnect lights, wait a few minutes, then reconnect and test.

8. Safety Information

Adhere to the following safety guidelines to prevent injury or damage:

- Always disconnect power before installing, servicing, or cleaning the transformer.
- Do not exceed the maximum 60W output capacity of the transformer.
- This transformer is designed for 24V DC low voltage lighting only. Do not connect to halogen lights or other incompatible devices.
- Ensure all outdoor electrical connections are made in accordance with local electrical codes.
- The unit is weatherproof, but it should not be submerged in water.
- Keep children and pets away from the transformer and wiring during operation.
- The transformer is ETL certified, indicating compliance with recognized safety standards.

9. Warranty and Support

For warranty information or technical support, please contact DEWENWILS customer service. Refer to the product packaging or the DEWENWILS official website for contact details. Please have your model number (HOSL02C) and

purchase date available when contacting support.

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