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DEWENWILS 60W-12V

DEWENWILS 60W Low Voltage Landscape Transformer User Manual

Model: 60W-12V

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DEWENWILS 60W Low Voltage Landscape Transformer. This device converts 120V AC household current to a safe 12V DC output, suitable for various low voltage LED landscape lighting applications. Please read this manual thoroughly before use to ensure proper function and safety.



Image 1.1: The DEWENWILS 60W Low Voltage Landscape Transformer, showing its compact design and control panel.

2. Safety Information

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury:

- **Power Disconnection:** Always disconnect power at the source before installing, servicing, or cleaning the transformer.
- **Load Capacity:** Ensure the total wattage of connected LED lights does not exceed 80% of the transformer's capacity (maximum 48W for this 60W model). Overloading can cause damage or fire.
- **Compatibility:** This transformer is designed for 12V DC LED landscape lights only. It is **not compatible** with halogen

lights.

- **Outdoor Use:** The transformer is weatherproof, but ensure the power outlet it is connected to is also suitable for outdoor use and protected from direct water spray.
- **Wiring:** All wiring should be performed according to local electrical codes and regulations. Use appropriate low voltage cable.
- **Mounting:** Mount the transformer at least 12 inches (30 cm) above ground level to prevent water ingress and ensure proper ventilation.
- **Circuit Protection:** The built-in auto circuit breaker provides protection against short circuits and overloads. If an ERROR indicator illuminates, disconnect power and troubleshoot.

3. Product Features

The DEWENWILS 60W Low Voltage Transformer offers several key features for efficient and safe landscape lighting control:

- **Efficient Power Conversion:** Converts 120V AC to 12V DC for safe low voltage LED lighting.
- **Dusk to Dawn Sensor:** Automatically turns lights on at dusk and off at dawn.
- **Countdown Timer:** Offers 2, 4, 6, or 8-hour timer modes for automatic shut-off after dusk.
- **Flexible Photocell Sensor:** Features a 1.8-meter detachable and replaceable cable for optimal placement and accurate light detection.
- **Dual Circuit Protection:** Built-in auto circuit breaker protects against short circuits and overloads.
- **Memory Function:** Retains the last settings after a power interruption.
- **All-Weather Durable Design:** Silicone-sealed construction provides IP-rated protection against rain and humidity.
- **ERROR Indicator:** Notifies users of abnormal working conditions.



Image 3.1: Illustration of the transformer converting 120V AC input to 12V DC output.



Image 3.2: The transformer installed outdoors, demonstrating its weatherproof, corrosion-resistant, and overload/short circuit protection features.

4. Package Contents

Verify that all items are present in the package:

- DEWENWILS 60W Low Voltage Landscape Transformer (1 unit)
- User Manual (this document)

5. Installation

Follow these steps for proper installation:

1. **Mount the Transformer:** Select a suitable outdoor location near a 120V AC power outlet. Mount the transformer securely on a wall or sturdy surface, ensuring it is at least 12 inches (30 cm) above ground level. Use appropriate mounting hardware (not included).



Image 5.1: Step 1 shows connecting wires to terminal blocks. Step 2 shows mounting the product on a wall, indicating a minimum mounting height of 12 inches.

2. **Connect Low Voltage Wires:** Connect the low voltage wires from your LED landscape lights to the terminal blocks on the transformer. Ensure proper polarity (positive to positive, negative to negative) if applicable to your lights. The number of lights depends on their individual wattage and the transformer's total capacity (max 48W).

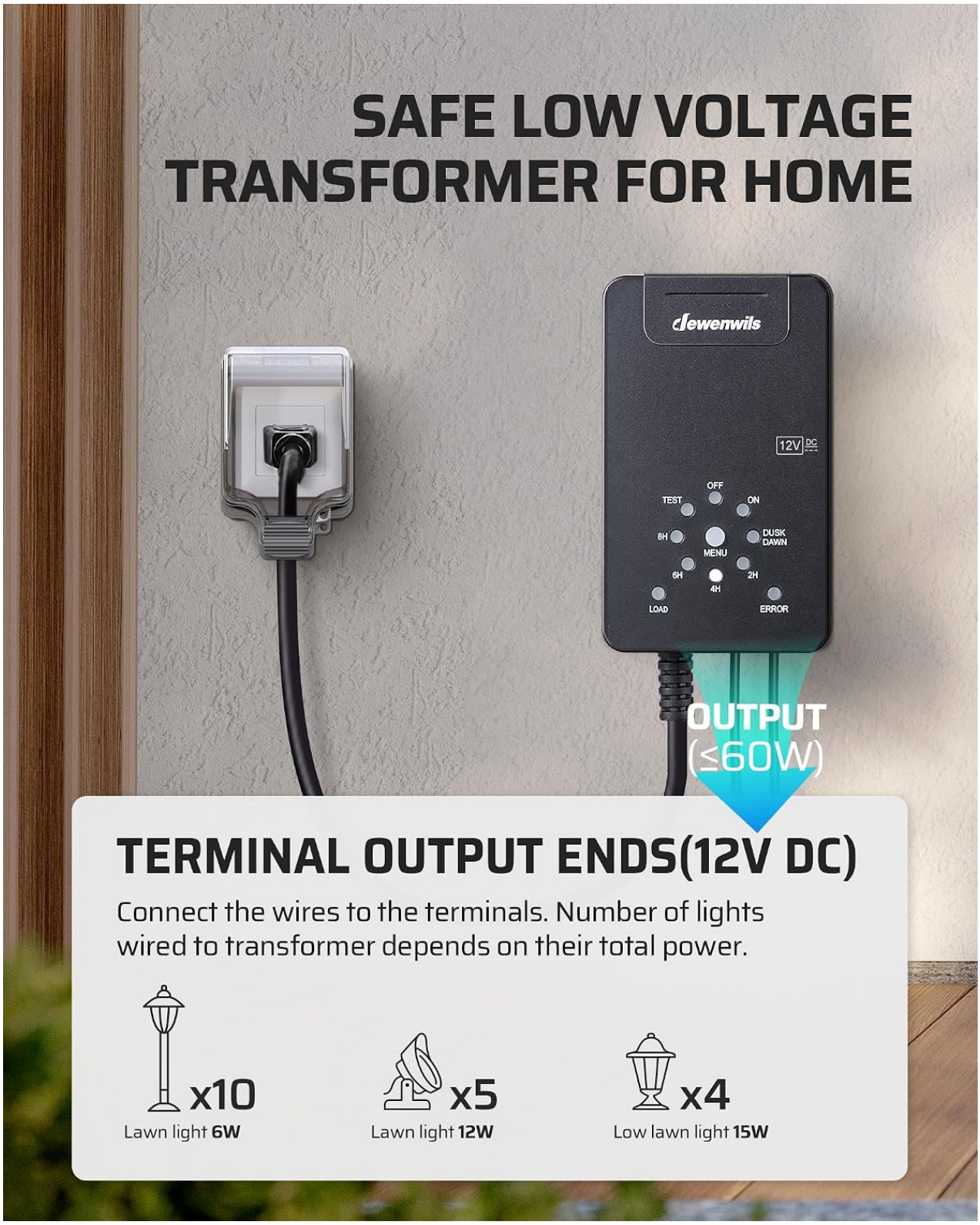


Image 5.2: The transformer connected to an outdoor outlet, with low voltage output wires leading to landscape lights. An example shows connecting multiple lights based on their wattage, ensuring total load is within 60W (or 48W for 80% capacity).

3. **Position the Photocell Sensor:** The detachable photocell sensor cable is 1.8 meters long. Position the sensor in an area that receives natural light, free from obstructions or artificial light sources that could interfere with its operation (e.g., porch lights).



Image 5.3: Illustrates the photocell sensor detecting light for automatic dusk-on and dawn-off operation of landscape lights.

4. **Plug In the Transformer:** Once all connections are secure, plug the transformer's power cord into a grounded 120V AC outdoor outlet.

6. Operating Instructions

The transformer features a central MENU button and surrounding function buttons for easy operation.

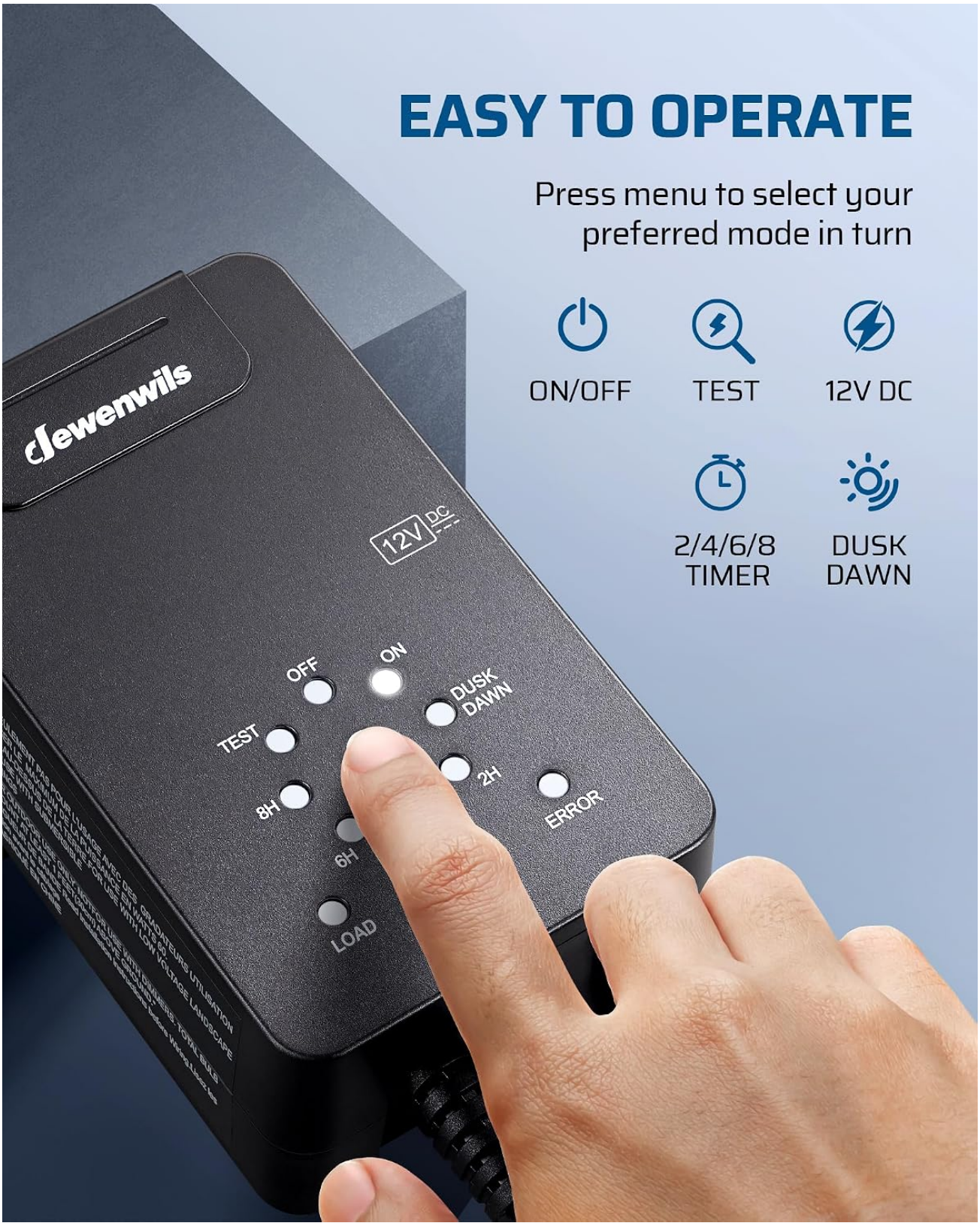


Image 6.1: A hand pressing the central MENU button on the transformer's control panel, highlighting the various mode selection buttons.

6.1. Selecting Operating Modes

Press the central **MENU** button repeatedly to cycle through the available operating modes. The indicator light next to the selected mode will illuminate.

- **ON:** Lights remain on continuously.
- **OFF:** Lights remain off.
- **DUSK DAWN:** Lights turn on automatically at dusk and turn off at dawn, controlled by the photocell sensor.



Image 6.2: Illustrates landscape lighting automatically turning on at dusk and off at dawn using the photocell sensor.

- **2H / 4H / 6H / 8H (Countdown Timer):** Lights turn on at dusk and remain on for the selected duration (2, 4, 6, or 8 hours), then turn off automatically.



Image 6.3: Shows examples of the countdown timer, such as lights turning on at dusk and off after 2 hours, or on at dusk and off after 6 hours.

- **TEST:** Activates the lights for a short period to verify connections and functionality.

6.2. Memory Function

The transformer is equipped with a memory function. In the event of a power outage, the device will automatically resume the last selected operating mode once power is restored, eliminating the need for frequent readjustments.



Image 6.4: Illustrates the transformer's memory function, showing that settings (e.g., ON at Dusk, OFF in 2 Hrs) are retained even after a power interruption.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your transformer:

- **Cleaning:** Periodically wipe the exterior of the transformer with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Photocell Sensor:** Keep the photocell sensor clean and free from dirt, debris, or obstructions to ensure accurate light detection.
- **Cable Inspection:** Regularly inspect the power cord and low voltage cables for any signs of damage, fraying, or wear. Replace damaged cables immediately.
- **Connections:** Periodically check all wire connections to ensure they are secure and free from corrosion.

8. Troubleshooting

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

- **Lights Not Turning On:**
  - Check if the transformer is plugged in and receiving power.
  - Verify the selected operating mode (e.g., not in OFF mode).
  - Inspect the photocell sensor for obstructions or dirt if using Dusk to Dawn mode.
  - Check all low voltage wire connections.
  - Ensure the total wattage of connected lights does not exceed 48W.
  - Press the **TEST** button to confirm basic functionality.
- **ERROR Indicator Light On:**
  - The ERROR light indicates a short circuit or overload.
  - Immediately unplug the transformer.
  - Inspect all low voltage wiring for shorts (e.g., exposed wires touching).
  - Reduce the total wattage of connected lights if it exceeds 48W.
  - Reconnect the transformer after resolving the issue.
- **Lights Not Turning Off/On at Correct Times:**
  - Ensure the photocell sensor is positioned correctly and not affected by artificial light sources (e.g., streetlights, porch

lights) or shadows.

- Clean the photocell sensor if it is dirty.

9. Specifications

Brand	DEWENWILS
Model	60W-12V
Input Voltage	120V AC
Output Voltage	12V DC
Max Wattage	60W (Recommended load ≤48W)
Power Source	Corded Electric
Mounting Type	Wall Mount
Photocell Cable Length	1.8 meters (approx. 5.9 feet)
Dimensions	7.13 x 4.84 x 3.23 inches (Package)
Weight	1.41 Pounds (Package)



Image 9.1: Diagram showing the approximate dimensions of the transformer: 4.7 inches height, 2.9 inches width, and 1.9 inches depth.

10. Customer Support

For further assistance, technical support, or warranty inquiries, please contact DEWENWILS customer service through the retailer where the product was purchased or visit the official DEWENWILS website.

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