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DEWENWILS DLT200-12-I

DEWENWILS 200W Low Voltage Landscape Transformer DLT200-12-I User Manual

Model: DLT200-12-I

1. Introduction

Thank you for choosing the DEWENWILS 200W Low Voltage Landscape Transformer. This device is designed to safely convert 120V AC household current to 12V DC low voltage, suitable for various outdoor landscape lighting applications such as spotlights, step lights, and garden lights. It features dual-zone control, an LED screen, a photocell sensor, and multiple timer modes for versatile and efficient lighting management.

Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage or injury. Keep this manual for future reference.



Image 1.1: DEWENWILS 200W Low Voltage Landscape Transformer.

2. Safety Information

- **Electrical Safety:** Always disconnect power at the circuit breaker before installing or servicing the transformer.
- **Voltage Compatibility:** This transformer is designed for 120V AC input and 12V DC output. Do not connect to other

voltage systems.

- **Load Capacity:** Do not exceed the maximum total load of 200W. Each zone supports up to 200W, but the combined load must not exceed 200W. Overloading can cause damage and fire hazards.
- **Halogen Lights:** This transformer is not suitable for Halogen lights. Use with LED landscape lights only.
- **Outdoor Use:** The transformer is designed for outdoor use and features a weatherproof metal housing. Ensure all connections are secure and protected from moisture.
- **Mounting:** Mount the transformer vertically on a wall or post, at a height between 12-48 inches (30-120 cm) from the ground. Ensure proper ventilation.
- **Wiring:** Use appropriate low-voltage landscape wiring (e.g., 12-gauge, 14-gauge, 16-gauge) suitable for outdoor burial or exposure.
- **Circuit Breaker:** The built-in automatic circuit breaker protects against overloads and short circuits. If the breaker trips, reduce the load or check for shorts before resetting.

3. Package Contents

Verify that all components are present upon unpacking:

- DEWENWILS 200W Low Voltage Landscape Transformer (DLT200-12-I)
- Integrated 3.3ft SJTW 18AWG Power Cord
- Integrated Photocell Sensor

4. Product Features

- **5 Operating Modes:** Includes Dusk-to-Dawn, Dusk-on with countdown (2/3/4/6/8H), Dusk-on/Timer off, Timer on/off, and Manual on/off.
- **Dual-Zone Control:** Two independently programmable zones allow for separate lighting schedules and modes for different areas.
- **LED Screen & Intuitive Buttons:** Clear display for settings and easy navigation.
- **Safe & Reliable:** Converts 120V AC to 12V DC. Features a built-in automatic circuit breaker for overload and short-circuit protection.
- **Durable Construction:** Metal weatherproof housing with a corrosion-resistant coating for year-round outdoor use.
- **Easy Installation:** Built-in hanging holes and a 3.3ft power cord for quick setup.



Image 4.1: Safe and Weatherproof Design.



Image 4.2: Sturdy and Durable Metal Shell.

5. Setup and Installation

Follow these steps for safe and correct installation:

1. **Choose a Location:** Select a suitable outdoor location for mounting the transformer. It should be mounted vertically on a wall or post, between 12 to 48 inches (30 to 120 cm) above the ground. Ensure the location allows for easy access to the power outlet and the low-voltage wiring.
2. **Mount the Transformer:** Use the built-in hanging holes on the back of the transformer to securely mount it. Ensure it is level and firmly attached to a stable surface.
3. **Connect Low Voltage Wires:** Open the transformer's front cover to access the terminal blocks. There are two zones, ZONE1 (orange) and ZONE2 (blue), each with V+, V+, and V- terminals. Connect the low-voltage wires from your landscape lights to the appropriate terminals. Typically, the positive wire (often ribbed or marked) connects to V+ and the negative wire (smooth or unmarked) connects to V-. Ensure all wire connections are tight and secure.
4. **Connect Photocell Sensor:** The photocell sensor is integrated. Ensure it is positioned where it can accurately detect ambient light (dusk and dawn) without being obstructed or directly exposed to artificial light sources.
5. **Plug into Power:** Once all low-voltage connections are made and secured, plug the transformer's 3-prong power cord into a grounded 120V AC outdoor outlet.
6. **Test System:** After plugging in, the LED screen will illuminate. You can now proceed to configure the operating modes.



Image 5.1: Easy Installation Steps.

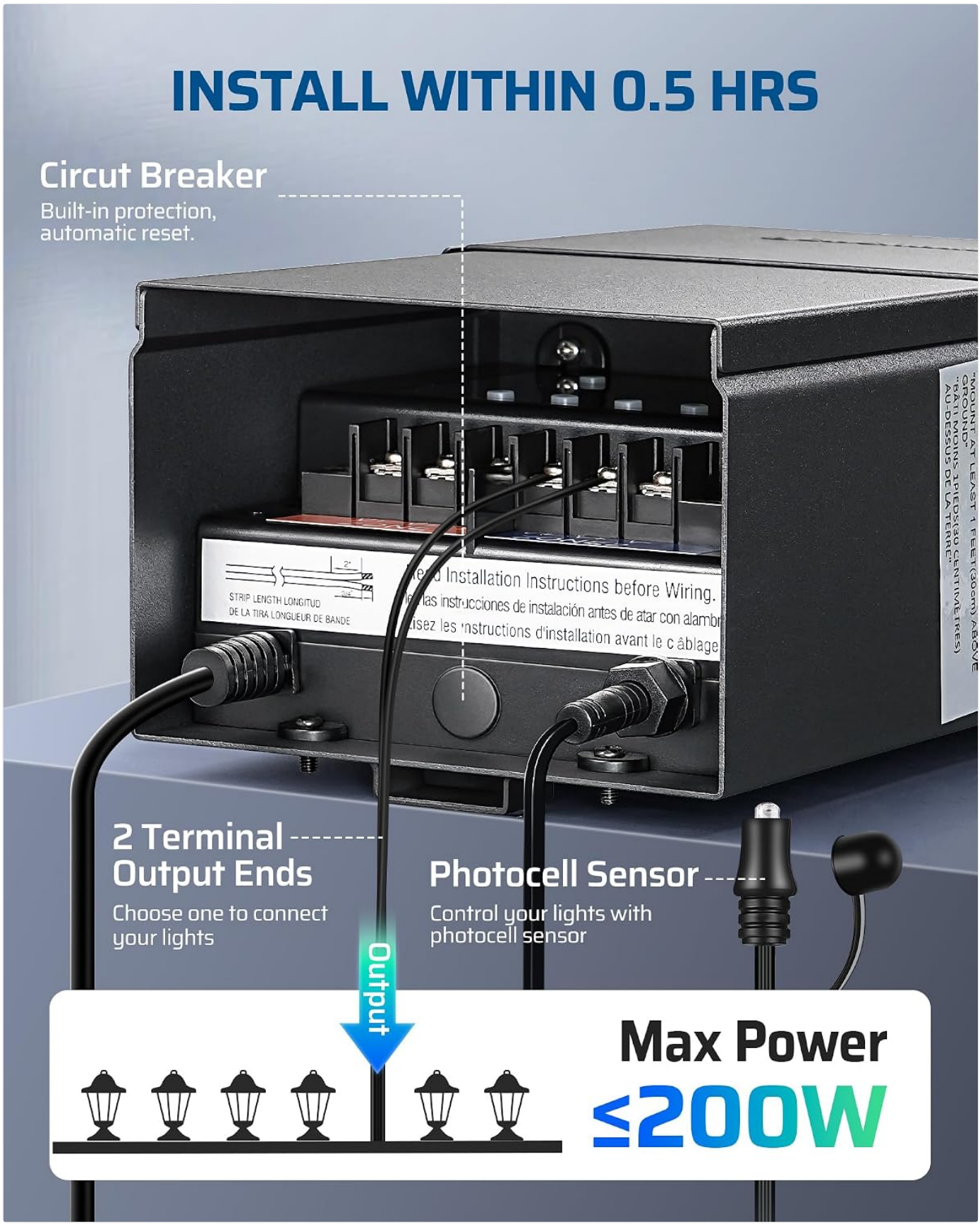


Image 5.2: Wiring Diagram and Photocell Sensor Placement.



Image 5.3: Dual-Zone Terminal Connections.

6. Operating Instructions

The transformer features an LED screen and intuitive buttons for setting the time and selecting operating modes for each zone.



Image 6.1: Control Panel Overview.

6.1 Setting the Clock

1. Press the **CLOCK** button. The hour digits will flash.
2. Use the **UP** or **DOWN** buttons to adjust the hour (12-hour format with AM/PM).
3. Press **CLOCK** again. The minute digits will flash.
4. Use the **UP** or **DOWN** buttons to adjust the minutes.

5. Press **CLOCK** one more time to save the time.

6.2 Selecting Operating Modes (Per Zone)

Each zone (ZONE1 and ZONE2) can be programmed independently. Use the dedicated buttons for each zone to cycle through the modes.

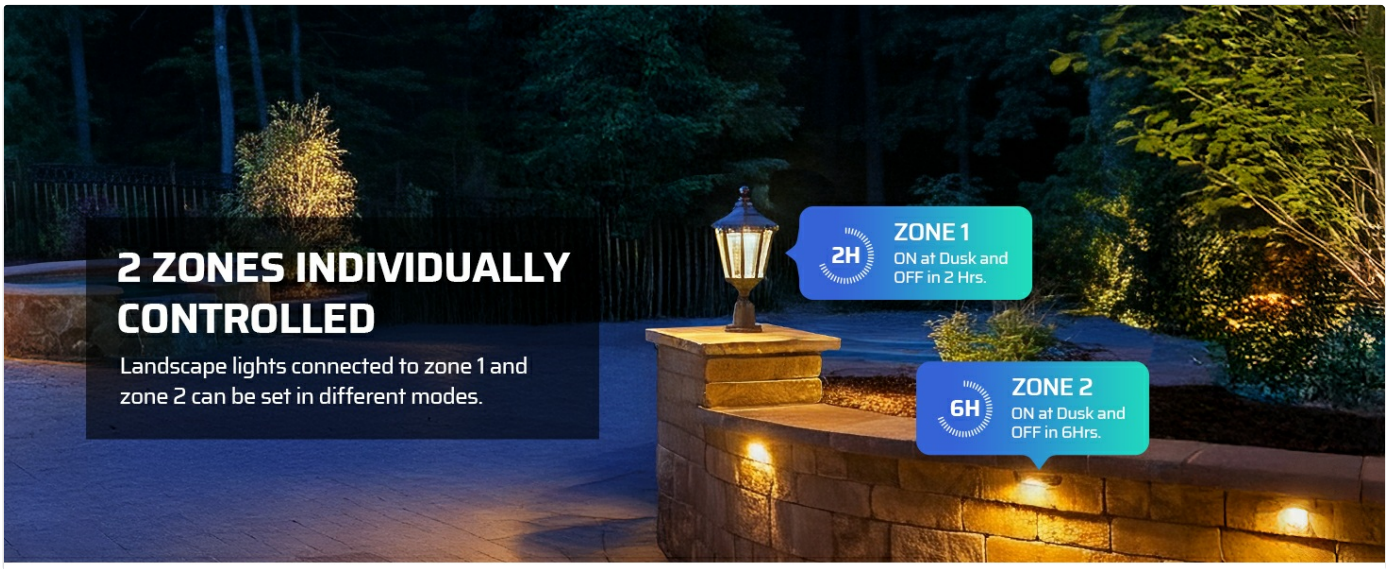


Image 6.2: Independent Dual-Zone Control.

- **Manual ON/OFF:**
  Press the **ZONE1** or **ZONE2** button until the indicator light for "Manual ON/OFF" is lit. In this mode, the lights will stay on or off until manually changed.
- **Dusk-to-Dawn (D2D):**
  Press the **ZONE1** or **ZONE2** button until the "D2D" indicator is lit. The photocell sensor will automatically turn the lights ON at dusk and OFF at dawn.



Image 6.3: Dusk-to-Dawn Mode Operation.

- **Dusk-on with Countdown (2H/3H/4H/6H/8H):**
  Press the **ZONE1** or **ZONE2** button to select the desired countdown duration (2, 3, 4, 6, or 8 hours). The lights will turn ON at dusk and automatically turn OFF after the selected duration.

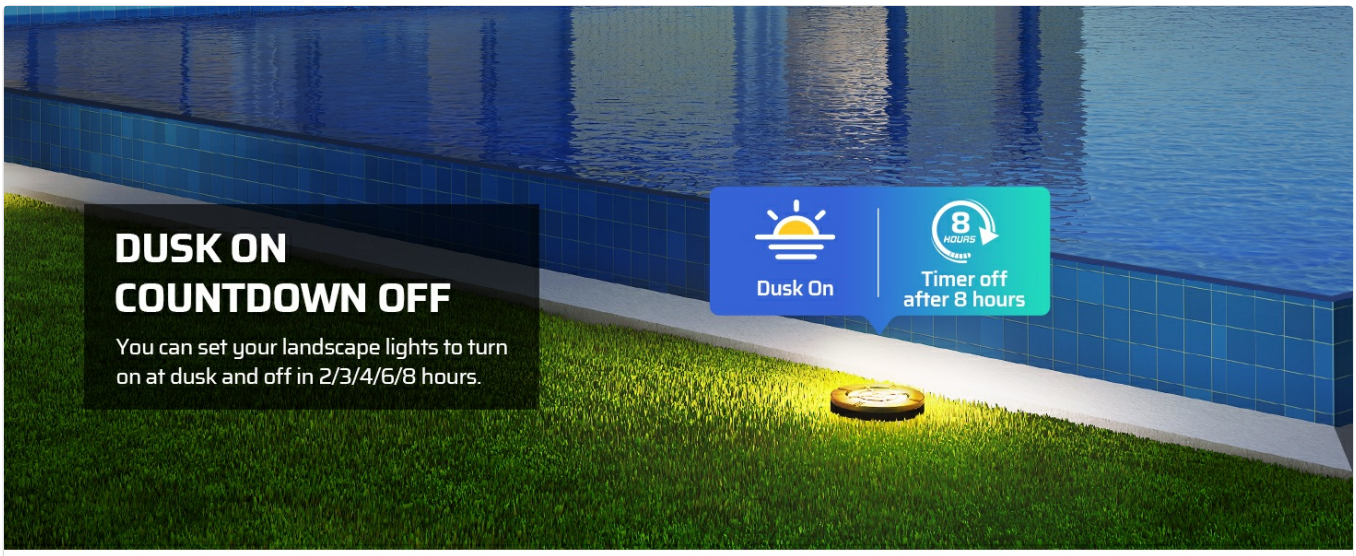


Image 6.4: Dusk-on with Countdown Mode.

- **Dusk-on/Timer Off:**
  Press the **ZONE1** or **ZONE2** button until this mode is selected. The lights will turn ON at dusk and turn OFF at a specific time you set. To set the OFF time, press **ENTER**, then use **UP/DOWN** to adjust the hour and minutes, and press **ENTER** to confirm.

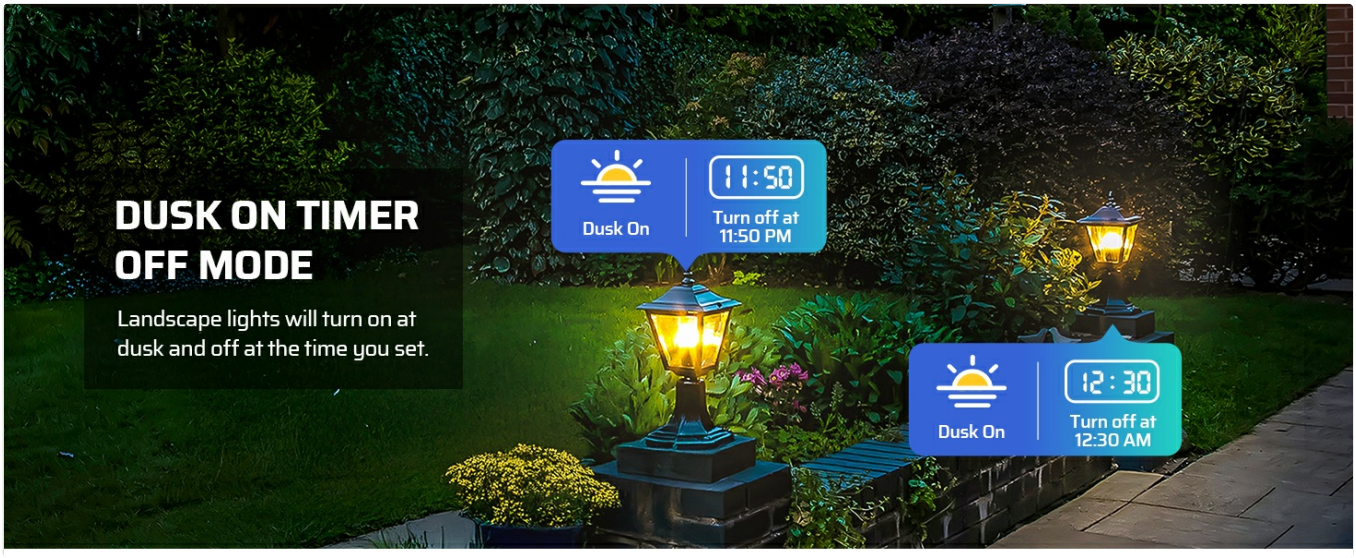


Image 6.5: Dusk-on/Timer Off Mode.

- **Timer ON/OFF:**
  Press the **ZONE1** or **ZONE2** button until this mode is selected. The lights will turn ON and OFF at specific times you set. To set the ON time, press **ENTER**, adjust the hour/minutes with **UP/DOWN**, and press **ENTER**. Repeat for the OFF time.



Image 6.6: Timer ON/OFF Mode.

6.3 Photocell Sensor

The integrated photocell sensor detects ambient light levels. For modes like Dusk-to-Dawn or Dusk-on with Countdown, it automatically activates the lights when it gets dark and deactivates them when it gets light. Ensure the sensor is not obstructed and is not exposed to direct artificial light sources (e.g., porch lights) that could interfere with its operation.

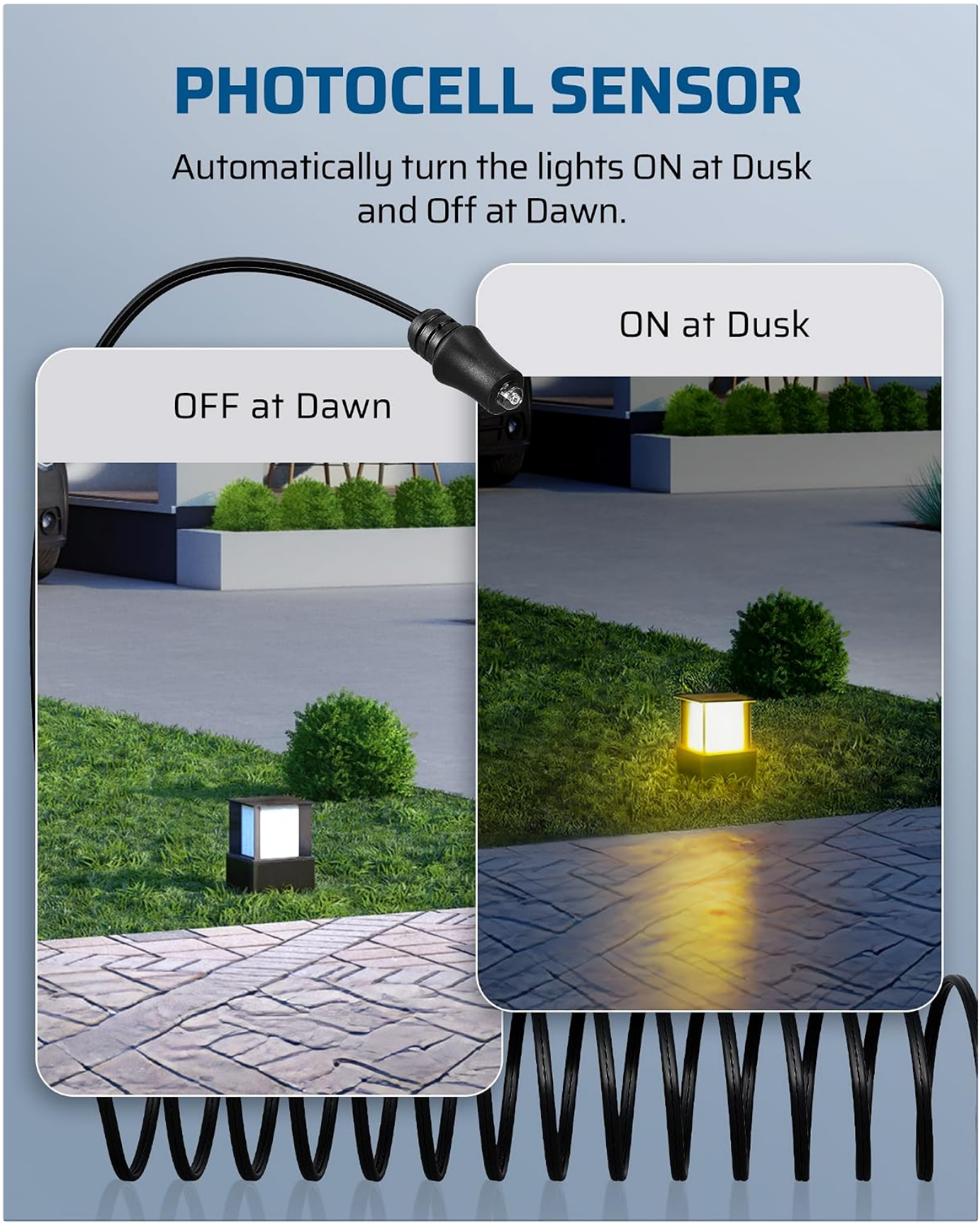


Image 6.7: Photocell Sensor Operation.

7. Maintenance

- **Cleaning:** Periodically wipe the transformer's exterior with a soft, damp cloth to remove dirt and debris. Do not use harsh chemicals or abrasive cleaners.

- **Photocell Sensor:** Ensure the photocell sensor remains clean and unobstructed for accurate operation.
- **Connections:** Annually inspect all low-voltage wire connections to ensure they are tight and free from corrosion.
- **Wiring:** Check low-voltage wiring for any signs of damage, fraying, or exposure. Repair or replace damaged wiring immediately.
- **Ventilation:** Ensure the area around the transformer remains clear to allow for proper heat dissipation.

8. Troubleshooting

Problem	Possible Cause	Solution
Lights do not turn on.	No power to transformer. Circuit breaker tripped. Incorrect mode selected. Faulty wiring/connections. Photocell obstructed.	Check power outlet and circuit breaker. Reset circuit breaker (reduce load if necessary). Verify correct operating mode is selected. Inspect all wire connections for tightness and shorts. Ensure photocell is clean and unobstructed.
Lights stay on constantly or turn on/off at wrong times.	Incorrect mode selected. Photocell interference. Incorrect clock setting.	Verify correct operating mode is selected. Relocate photocell or remove obstructions/light sources. Re-set the current time on the transformer.
LED screen is blank.	No power to transformer.	Check power outlet and circuit breaker.
Some lights are not working.	Faulty bulb/fixture. Loose connection in that specific light's wiring.	Test individual lights. Replace faulty components. Check wiring for the affected light.

9. Specifications

Specification	Detail
Model Number	DLT200-12-I
Input Voltage	120V AC, 60Hz
Output Voltage	12V DC
Max Power Output	200W (Total)
Number of Zones	2 (Independently controlled)
Power Cord	3.3ft SJTW 18AWG

Specification	Detail
Dimensions (H x W x D)	10.7 x 5.5 x 4.1 inches (27.2 x 14 x 10.4 cm)
Mounting Type	Wall Mount
Housing Material	Metal, Weatherproof



Image 9.1: Product Dimensions.



Image 9.2: Input and Output Voltage Conversion.

10. Warranty and Support

DEWENWILS products are designed for reliability and performance. For warranty information, technical support, or any

questions regarding your DEWENWILS 200W Low Voltage Landscape Transformer, please contact DEWENWILS customer service. Refer to the product packaging or the DEWENWILS official website for the most current contact information.

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