

DEWENWILS HDLT02A

DEWENWILS 200W Low Voltage Landscape Transformer Instruction Manual

Model: HDLT02A

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your DEWENWILS 200W Low Voltage Landscape Transformer. This device converts standard 120V AC household current to a safe 15V DC low voltage, suitable for various 12V landscape lighting fixtures. It features a built-in photocell sensor and multiple timer functions for automated control of your outdoor lighting.



Image 1.1: The DEWENWILS 200W Low Voltage Landscape Transformer, showcasing its digital display and integrated power cord.



Image 1.2: Visual representation of the transformer's function, converting 120V AC input to 12V DC output, with a maximum capacity of 200W.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or property damage.

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

- **Halogen Lights:** This transformer is **not** suitable for Halogen lights.
- **Outdoor Use:** The transformer is weatherproof, but ensure all connections are secure and protected from direct water exposure.
- **Overload Protection:** The built-in automatic circuit breaker provides overload and short-circuit protection. If an overload occurs, the unit will shut off. Disconnect the load, resolve the issue, and then reconnect.
- **Mounting:** Mount the transformer securely on a vertical surface at a height between 12 inches (0.3m) and 48 inches (1.2m) from the ground.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- DEWENWILS 200W Low Voltage Landscape Transformer

4. SPECIFICATIONS

Specification	Value
Product Dimensions	3.1"D x 5.97"W x 9.72"H
Item Model Number	HDLT02A
Power Source	DC
Mounting Type	Wall Mount
Current Rating	16 Amps
Input Voltage	120V AC
Output Voltage	15V DC
Max Power Output	200W

5. INSTALLATION

Follow these steps for proper installation of your landscape transformer:

1. **Choose a Location:** Select a suitable outdoor location for mounting the transformer. It should be mounted on a vertical surface, such as a wall or post, between 12 inches (0.3m) and 48 inches (1.2m) from the ground. Ensure the location allows for easy access to the power outlet and the low voltage wiring.
2. **Mount the Transformer:** Use appropriate screws (not included) to securely mount the transformer through its built-in hanging holes.
3. **Connect Low Voltage Wires:** Connect the positive and negative wires from your 12V landscape lights to the terminal blocks on the transformer. Ensure a secure connection for each wire. The transformer provides two terminal output ends; choose one to connect your lights.
4. **Connect Photocell Sensor:** Plug the photocell sensor into its designated port on the transformer. Position the sensor where it can accurately detect ambient light (dusk/dawn) without being obstructed or

exposed to direct artificial light sources at night.

5. **Plug into Power:** Once all low voltage connections are made and secured, plug the transformer's 3.3ft SJTW18AWG3/C power cord into a standard 120V AC outdoor-rated electrical outlet.



Image 5.1: Visual guide for connecting wires to the terminal blocks and mounting the transformer on a wall.



Image 5.2: Detailed view of the transformer's connection points for low voltage lighting and the photocell sensor, highlighting the built-in circuit breaker.

6. OPERATING INSTRUCTIONS

The DEWENWILS transformer features a clear LED screen and simple button operation. It offers five distinct operating modes and a memory function to retain your settings after a power outage.

EASY TO OPERATE

Press menu to select your preferred mode in turn.

Memory function: It will maintain the mode you previously selected after powering off and restarting.



Image 6.1: The transformer's control panel displaying the available operating modes.



Image 6.2: User interface for scheduling landscape lights, illustrating the sequence of mode selection.

6.1 Setting the Clock

Press the 'CLOCK' button to enter clock setting mode. Use the arrow buttons to adjust the hour and minute, then press 'CLOCK' again to confirm.

6.2 Selecting Operating Modes

Press the 'MENU' button repeatedly to cycle through the following operating modes:

- **MANUAL ON/OFF:** Lights can be manually turned on or off using the 'ON/OFF' button.
- **Dusk on to Dawn off:** The photocell sensor automatically turns lights on at dusk and off at dawn.

PHOTOCELL SENSOR

Automatically turn the lights ON at DUSK and OFF at DAWN, or ON at DUSK and OFF in 2/3/4/6/8 hours



Image 6.3: Illustration of the Dusk to Dawn mode, where lights activate automatically based on ambient light levels.



Image 6.4: Example of landscape lights operating in Dusk Dawn Mode, turning on at dusk and off at dawn.

- **Dusk on to Countdown off (after 2/3/4/6/8 hrs):** Lights turn on at dusk and automatically turn off after a selected duration (2, 3, 4, 6, or 8 hours). Use the arrow buttons to select the desired countdown time.



Image 6.5: Example of Countdown Mode, where lights turn on at dusk and off after a user-defined period.

- **Dusk on to Timer off:** Lights turn on at dusk and turn off at a specific time you set. Use the arrow buttons to set the desired turn-off time.



Image 6.6: Example of Dusk On to Timer Off Mode, allowing lights to turn off at a precise time after dusk activation.

- **Timer on to Timer off:** Lights turn on and off at specific times you set, regardless of ambient light. Use the arrow buttons to set both the turn-on and turn-off times.



6.3 Memory Function

The transformer includes a memory function that retains your last selected mode and settings even after a power outage. This eliminates the need for frequent readjustment.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your DEWENWILS landscape transformer.

- **Cleaning:** Periodically wipe the transformer's exterior with a soft, damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents.
- **Photocell Sensor:** Ensure the photocell sensor remains clean and unobstructed for accurate dusk/dawn detection.
- **Connections:** Annually inspect all low voltage wire connections to ensure they are tight and free from corrosion.
- **Weather Protection:** While weatherproof, avoid submerging the unit in water. Ensure the cover is securely closed if applicable.



Image 7.1: The transformer's robust design, highlighting its weatherproof, corrosion-resistant, and protective features for outdoor use.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
---------	----------------	----------

Lights do not turn on.	No power to transformer, loose connections, photocell obstructed, incorrect mode, overloaded circuit.	Check power outlet. Ensure all wire connections are secure. Clear any obstructions from the photocell sensor. Verify the operating mode is correctly set. Reduce the total wattage of connected lights if exceeding 200W.
Lights stay on/off constantly.	Photocell sensor issue, incorrect mode, timer settings incorrect.	Ensure photocell is clean and not exposed to artificial light at night. Check that the correct operating mode (e.g., Dusk to Dawn) is selected. Verify timer settings are accurate.
Transformer displays "FAIL" or shuts off.	Overload or short circuit detected.	Disconnect all lights from the transformer. Check each light and wiring for shorts or damage. Reconnect lights one by one to identify the faulty component. Ensure total wattage does not exceed 200W.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact DEWENWILS customer service. Refer to your purchase documentation for specific warranty terms and contact details.