

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [WILAWELS](#) /

› [WILAWELS 600W Low Voltage Transformer D11LT06 User Manual](#)

WILAWELS D11LT06

WILAWELS 600W Low Voltage Transformer D11LT06 User Manual

Model: D11LT06

1. INTRODUCTION

Thank you for choosing the WILAWELS 600W Low Voltage Transformer D11LT06. This transformer is designed to convert standard 120V AC household current to a safe 12V/14V AC low voltage, ideal for powering outdoor landscape lighting systems. It features multiple operating modes, a built-in photocell sensor, and robust weather-resistant construction for reliable performance.

Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the lifespan of your product.

2. SAFETY INSTRUCTIONS

- **Electrical Safety:** Always disconnect power at the source before installing, servicing, or cleaning the transformer or connected lighting.
- **Outdoor Use:** This transformer is designed for outdoor use. Ensure all connections are secure and protected from moisture.
- **Grounding:** Ensure the transformer is properly grounded according to local electrical codes.
- **Power Limit:** Do not exceed the maximum 600W power output of this transformer. Overloading can cause damage and create a fire hazard.
- **Cable Protection:** Protect low voltage cables by routing them in close proximity to the fixture or building structure, or by burying them up to 6 inches (15 cm).
- **Placement:** Mount the transformer at least 1 foot (30 cm) above ground level to prevent water damage.
- **Maintenance:** Regularly inspect the transformer and wiring for any signs of damage or wear. Replace damaged components immediately.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- WILAWELS 600W Low Voltage Transformer (Model D11LT06)
- Integrated Photocell Sensor
- Power Cord (ETL Certified SJTW 18AWG/3C, 3.3ft)
- Sensor Cord (ETL Certified SJTW 20AWG/2C, 6ft)
- User Manual (this document)

4. PRODUCT FEATURES

LOW-VOLTAGE TRANSFORMER

Converts voltage from 120V AC to 12V/14V AC for lawn lights and landscape lighting.

600W



600W Power Output: This transformer provides a robust 600 watts of power, capable of supporting a wide range of

low voltage landscape lighting fixtures. It converts 120V AC input to 12V/14V AC output, suitable for most outdoor lighting systems.



Six Operating Modes: The transformer offers versatile control with six distinct operating modes: Manual On/Off, Auto On/Off, Timer Mode, Countdown Mode, Dusk On Timer Off Mode, and Test Mode. These modes allow for flexible scheduling and control of your lighting.

ON AT DUSK AND OFF AT DAWN

The photocell sensor turns lights on at dusk and off at dawn.



Photocell Sensor: Equipped with an intelligent photocell sensor, the transformer can automatically turn your lights on at dusk and off at dawn, providing energy efficiency and convenience. This feature is integral to the Auto On/Off and Dusk On Timer Off modes.

WEATHER-RESISTANT AND FUNCTIONAL

Built-in circuit breaker offers protection against rain, snow and dust.



Resistant to Weather Conditions



Guard Against Overheating



Protection Against Overload/Short Circuit



Corrosion-Resistant

Weather-Resistant and Durable: The robust construction ensures the transformer is resistant to various weather conditions, including rain, snow, and dust. It is designed to be corrosion-resistant for long-term outdoor use.

SET UP LESS THAN AN HOUR

Plug and play once installed.



Power Limit

600W



X 60

8W Lawn Light



X 48

10W Lawn Light



X 24

20W Lawn Light

Built-in Circuit Breaker & Dual Terminal Outputs: For enhanced safety, a circuit breaker is included which automatically resets after tripping due to overload. The transformer also features dual terminal outputs, allowing for flexible wiring configurations to suit your landscape lighting layout.

5. SETUP AND INSTALLATION

5.1 Mounting the Transformer

1. Choose a suitable outdoor location near a 120V AC GFCI (Ground Fault Circuit Interrupter) protected outlet.
2. Mount the transformer vertically on a wall or post using appropriate screws (not included). Ensure it is at least

1 foot (30 cm) above ground level.

3. Ensure the photocell sensor is not obstructed by eaves, trees, or other objects that could block natural light, and is not exposed to artificial light sources (e.g., porch lights) that could interfere with its operation.

5.2 Connecting Low Voltage Cables

1. Ensure the transformer is unplugged from the power outlet.
2. Strip approximately 1/2 inch (1.2 cm) of insulation from the ends of your low voltage landscape lighting cables.
3. Open the terminal cover on the transformer. Insert the stripped ends of the low voltage cables into one of the terminal output ports (12V or 14V, depending on your lighting requirements and cable length). Tighten the screws securely to ensure a good electrical connection.
4. If using multiple lighting runs, you can utilize both terminal outputs. Ensure the total wattage of all connected lights does not exceed 600W.
5. Route the low voltage cables to your lighting fixtures, ensuring they are protected from damage.

5.3 Connecting the Photocell Sensor

1. The photocell sensor is connected via a dedicated sensor cord. Plug the sensor cord into the designated port on the transformer.
2. Position the sensor in an area that receives natural daylight and is not affected by artificial light sources at night.



Dimensions: 8.9" (22.7cm) H x 5.7" (14.5cm) W x 3.2" (8.2cm) D. Power Cord: 3.3ft (1m). Sensor Cord: 6ft (1.8m).

6. OPERATING INSTRUCTIONS

The transformer features a digital display and control buttons (MENU, CLOCK, ENTER) for setting the time and selecting operating modes.

6.1 Setting the Current Time

1. Plug the transformer into a GFCI protected 120V AC outlet.

2. Press the **CLOCK** button. The hour digits will flash.
3. Use the **MENU** button to adjust the hour. Press **ENTER** to confirm.
4. The minute digits will flash. Use the **MENU** button to adjust the minutes. Press **ENTER** to confirm.
5. The AM/PM indicator will flash. Use the **MENU** button to select AM or PM. Press **ENTER** to confirm. The current time is now set.

6.2 Selecting Operating Modes

Press the **MENU** button repeatedly to cycle through the available operating modes. The selected mode will be indicated on the display.

- **OFF:** Lights remain off.
- **ON:** Lights remain on continuously.
- **AUTO:** Lights turn on at dusk and turn off at dawn, controlled by the photocell sensor.
- **TIMER:** Lights turn on at dusk and stay on for a set duration (2H, 4H, 6H, 8H).
 - a. Select TIMER mode using the **MENU** button.
 - b. Press **ENTER**. The timer duration will flash.
 - c. Use the **MENU** button to select 2H, 4H, 6H, or 8H.
 - d. Press **ENTER** to confirm. Lights will turn on at dusk and turn off after the selected duration.
- **COUNTDOWN:** Lights turn on immediately and stay on for a set duration (2H, 4H, 6H, 8H).
 - a. Select COUNTDOWN mode using the **MENU** button.
 - b. Press **ENTER**. The countdown duration will flash.
 - c. Use the **MENU** button to select 2H, 4H, 6H, or 8H.
 - d. Press **ENTER** to confirm. Lights will turn on immediately and turn off after the selected duration.
- **TEST:** This mode allows you to quickly test your lighting system. Lights will turn on for a short period (e.g., 1 minute) and then revert to the previously selected mode.

7. MAINTENANCE

- **Cleaning:** Periodically wipe the transformer's exterior with a soft, damp cloth to remove dirt and debris. Do not use abrasive cleaners or immerse the unit in water.
- **Connections:** Annually inspect all low voltage cable connections to ensure they are tight and free from corrosion. Loose connections can cause flickering or power loss.
- **Photocell Sensor:** Keep the photocell sensor clean and free from obstructions (e.g., leaves, dirt) to ensure accurate dusk/dawn detection.
- **Circuit Breaker:** If the lights stop working, check the circuit breaker. If it has tripped, disconnect some lights to reduce the load, then allow it to reset automatically.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Lights do not turn on.	<ul style="list-style-type: none"> No power to transformer. Circuit breaker tripped. Loose wiring connections. Incorrect operating mode selected. Faulty photocell sensor (in AUTO/TIMER modes). Faulty light fixtures/bulbs. 	<ul style="list-style-type: none"> Check the GFCI outlet and ensure the transformer is plugged in. Reduce total wattage of lights; allow circuit breaker to reset. Tighten all low voltage wiring connections. Verify the selected mode (e.g., ON, AUTO, TIMER). Ensure photocell is clean and unobstructed. Test in ON mode. Test individual lights or bulbs.
Lights flicker or are dim.	<ul style="list-style-type: none"> Loose wiring connections. Too many lights connected (overload). Voltage drop due to long cable runs or insufficient wire gauge. 	<ul style="list-style-type: none"> Tighten all low voltage wiring connections. Reduce the number of connected lights. Use thicker gauge wire for longer runs or split lighting into multiple runs using both terminal outputs. Consider using the 14V output for longer runs.
Lights stay on during the day (AUTO/TIMER modes).	<ul style="list-style-type: none"> Photocell sensor is obstructed or dirty. Photocell sensor is exposed to artificial light at night. 	<ul style="list-style-type: none"> Clean the photocell sensor and ensure it has a clear view of natural light. Relocate the transformer or sensor to an area not affected by artificial light sources.

9. SPECIFICATIONS

Model Number	D11LT06
Input Voltage	120V AC, 60Hz
Output Voltage	12V AC / 14V AC
Max Power Output	600W
Product Dimensions (H x W x D)	22.7 cm x 14.5 cm x 8.2 cm (8.9 in x 5.7 in x 3.2 in)
Item Weight	5.08 kg (11.2 lbs)

Included Components	Low Voltage Transformer, Photocell Sensor
Certifications	ETL Certified

10. WARRANTY AND SUPPORT

WILAWELS products are manufactured to high-quality standards. This product is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty details, support, or technical assistance, please refer to the warranty card included with your product or contact WILAWELS customer service directly.

You can typically find contact information on the manufacturer's official website or through your retailer.