

WILAWELS D12LT06

WILAWELS 300W Low Voltage Landscape Transformer D12LT06 User Manual

Model: D12LT06 | Brand: WILAWELS

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1. SAFETY INFORMATION

Please read and understand all instructions before installing or operating this low voltage landscape transformer. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Safety:** This transformer converts 120V AC to 12/14V AC. Always ensure the power supply is disconnected before installation or servicing.
- **Outdoor Installation Only:** This unit is designed for outdoor use. Do not install indoors.
- **Mounting:** Mount the transformer at least 1 foot (30cm) above ground level to prevent water damage.
- **Wiring:** Ensure all wiring connections are secure and waterproof. Do not exceed the maximum wattage rating of 300W.
- **Circuit Breaker:** The built-in circuit breaker automatically disconnects power in case of overload or short circuit. Reset the breaker after troubleshooting.
- **Photocell Sensor:** Position the photocell sensor away from direct artificial light sources to ensure proper dusk-to-dawn operation.

2. PRODUCT OVERVIEW

The WILAWELS 300W Low Voltage Landscape Transformer is designed to provide safe and reliable power for your outdoor lighting systems. It features multiple operating modes, a detachable photocell sensor, and robust weather-resistant construction.

2.1 What's in the Box

- WILAWELS 300W Low Voltage Landscape Transformer (Model D12LT06)
- Detachable Photocell Sensor
- User Manual

2.2 Key Features

- **300W Power Output:** Safely converts 120V AC to 12/14V AC for various low-voltage outdoor lights.
- **Dusk-to-Dawn Photocell Sensor:** Automatically turns lights on at dusk and off at dawn.
- **Six Setting Modes:** Offers versatile control options including Manual On/Off, Auto On/Off, Countdown, Timer, Dusk On Timer Off, and Test mode.
- **Circuit Protection:** Built-in protection against overloads and short circuits, with an automatic reset function.
- **Memory Function:** Retains programmed settings after power interruptions.
- **Weatherproof Construction:** Designed to withstand rain, snow, dust, and corrosive environments.

LOW-VOLTAGE TRANSFORMER

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

300W



Figure 2.2.1: The transformer converts 120V AC input to 12V or 14V AC output for landscape lighting.



Figure 2.2.2: Illustration of the transformer's input, output, integrated auto circuit breaker, and power capacity for various light types.

3. SETUP

3.1 Mounting the Transformer

1. Choose a suitable outdoor location near a 120V AC power outlet.
2. Ensure the mounting surface is stable and can support the transformer's weight.
3. Mount the transformer at least 1 foot (30cm) above ground level using appropriate screws and anchors (not included).

3.2 Wiring Landscape Lights

1. Ensure the transformer is unplugged from the power outlet.
2. Connect your low-voltage landscape lighting cables to the transformer's output terminals. The transformer features dual terminal outputs.
3. Ensure all connections are tight and secure. Use waterproof connectors for outdoor wiring.
4. Do not exceed the total wattage of 300W for all connected lights.

3.3 Photocell Sensor Installation

1. Plug the detachable photocell sensor into its designated port on the transformer.
2. Position the sensor in a location that receives natural daylight and is not obstructed by shadows or artificial light sources (e.g., porch lights) that could interfere with its operation.

SET UP LESS THAN AN HOUR

Plug and play once installed.



Power Limit

300W



X 24

10W Lawn Light



X 20

12W Lawn Light



X 10

24W Lawn Light

Figure 3.3.1: The back panel of the transformer, highlighting the dual terminal outputs, integrated circuit breaker, and the connection point for the photocell sensor.

ON AT DUSK AND OFF AT DAWN

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



Figure 3.3.2: The transformer installed outdoors, illustrating how the detachable photocell sensor detects ambient light to activate lights at dusk and deactivate them at dawn.

4. OPERATING INSTRUCTIONS

The transformer features a digital display and control buttons for setting the clock and selecting operating modes.

4.1 Setting the Clock

1. Press the **CLOCK** button. The hour display will flash.

2. Use the **UP** (▲) and **DOWN** (▼) buttons to adjust the hour. Pay attention to AM/PM indicators.
3. Press **CLOCK** again. The minute display will flash.
4. Use the **UP** (▲) and **DOWN** (▼) buttons to adjust the minutes.
5. Press **ENTER** to save the time.

4.2 Operating Modes

Press the **MENU** button to cycle through the six available operating modes. The selected mode will be indicated by an LED light.



Figure 4.2.1: Overview of the six distinct operating modes available on the transformer for flexible lighting control.

4.2.1 Manual On/Off Mode

In this mode, you manually turn the lights on or off. Select 'ON' for continuous operation or 'OFF' to keep lights off.



Figure 4.2.2: Direct manual control allows users to switch landscape lights on or off as needed.

4.2.2 Auto On/Off (Dusk to Dawn) Mode

The photocell sensor automatically turns lights on when it gets dark (dusk) and off when it gets light (dawn). This mode requires the photocell sensor to be properly installed and positioned.



Figure 4.2.3: Smart automatic light management ensures lights activate at dusk and deactivate at dawn, optimizing energy savings.

4.2.3 Countdown Mode

Lights turn on at dusk and automatically turn off after a set duration of 2, 4, 6, or 8 hours. Use the **UP** (▲) and **DOWN** (▼) buttons to select the desired countdown duration.

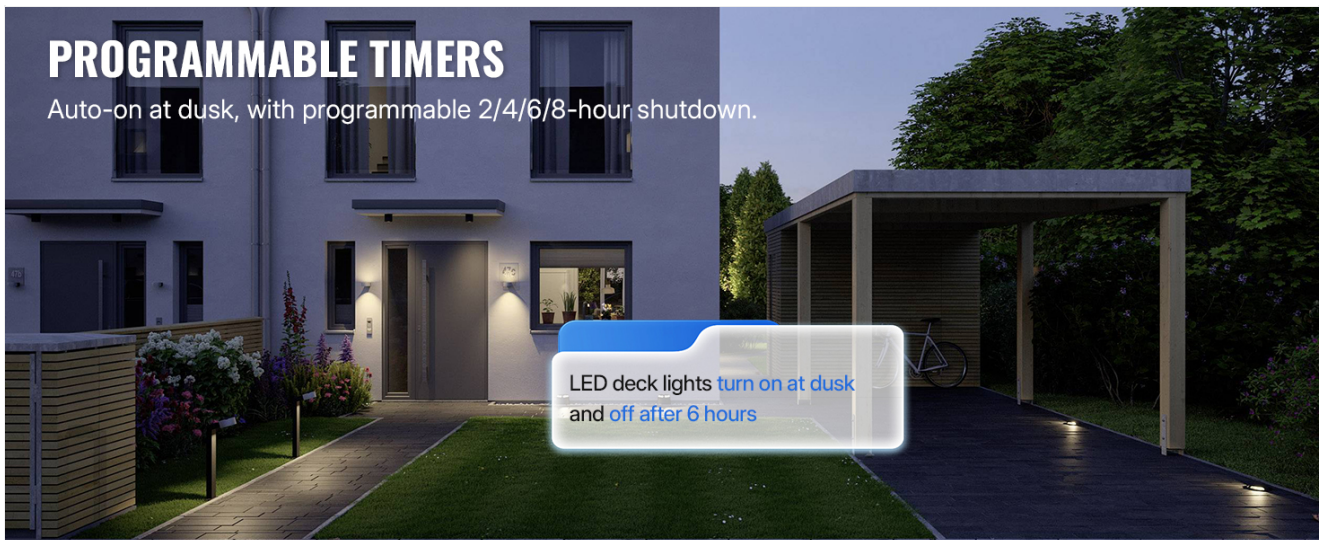


Figure 4.2.4: Programmable timers allow lights to activate at dusk and shut off after a user-defined duration (2, 4, 6, or 8 hours).

4.2.4 Timer Mode (On/Off at Set Times)

Program specific ON and OFF times for your lights. This allows for a custom lighting schedule independent of ambient light conditions.

1. Press **MENU** until 'TIMER' is selected.
2. Press **ENTER** to set the ON time. Adjust hour/minute with **UP** (▲) and **DOWN** (▼) buttons, then **ENTER**.
3. Repeat for the OFF time.

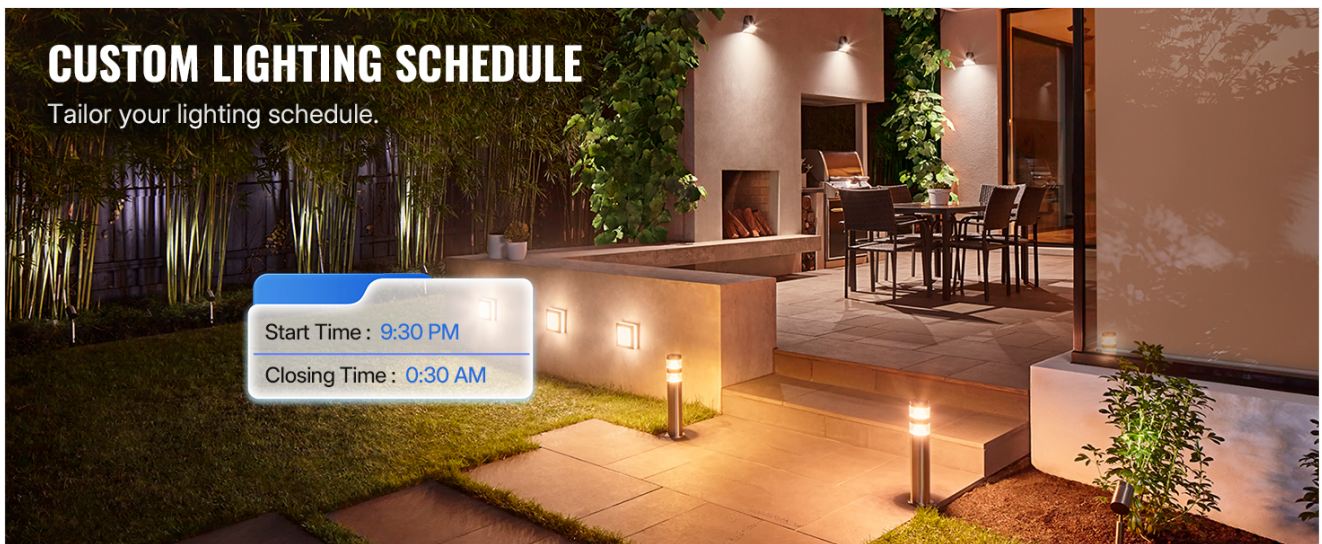


Figure 4.2.5: Create a custom lighting schedule by setting precise start and end times for your landscape lights.

4.2.5 Dusk On Timer Off Mode

Lights turn on at dusk and turn off at a specific programmed time. This combines the photocell's dusk detection with a timed shutdown.

1. Press **MENU** until 'DUSK ON TIMER OFF' is selected.
2. Press **ENTER** to set the OFF time. Adjust hour/minute with **UP (▲)** and **DOWN (▼)** buttons, then **ENTER**.

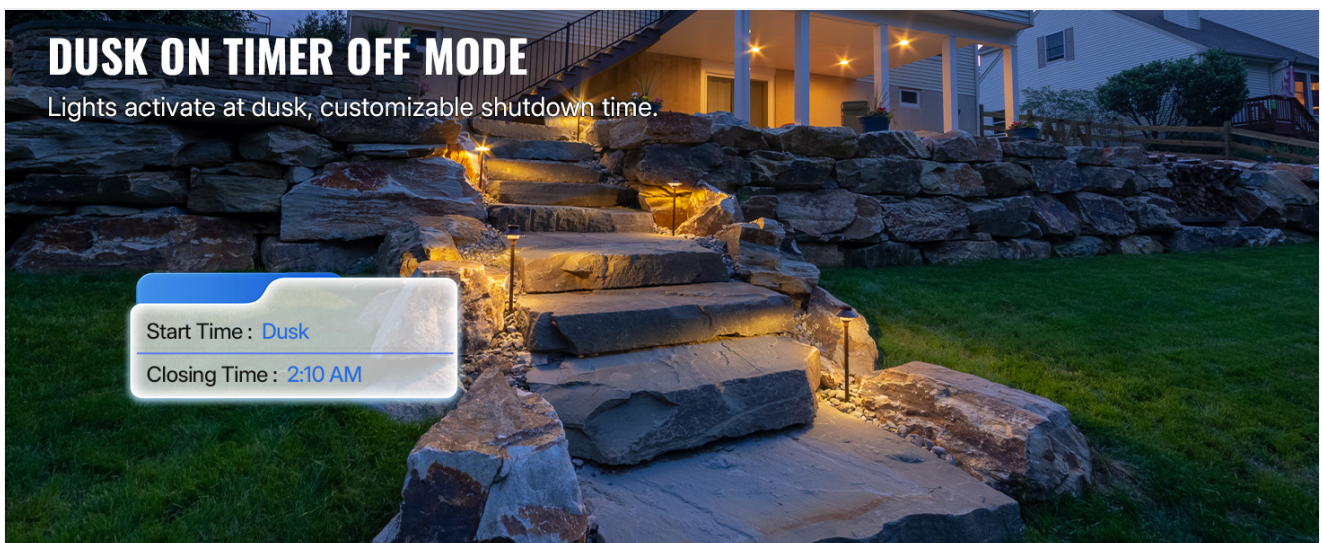


Figure 4.2.6: Lights activate at dusk and automatically shut down at a user-defined time in the Dusk On Timer Off mode.

4.2.6 Test Mode

This mode allows for real-time testing of the photocell sensor to determine optimal placement. Lights will turn on or off instantly based on light detection, helping you verify sensor functionality and placement.



Figure 4.2.7: Test mode enables real-time light sensor testing to ensure optimal placement of the transformer and sensor.

4.3 Memory Function

The transformer is equipped with a memory function. In the event of a power outage, your last programmed settings will be retained once power is restored, eliminating the need for reprogramming.



Figure 4.3.1: The transformer's memory function ensures that all settings are preserved even after a power interruption.

4.4 Product Video

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Video 4.4.1: This video demonstrates the features and operation of the WILAWELS Low Voltage Landscape Transformer, including its various modes and power rating.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your transformer.

- **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:** Keep the photocell sensor clean and free from obstructions (e.g., leaves, snow) to ensure accurate light detection.
- **Connections:** Annually inspect all wiring connections for tightness and signs of corrosion.
- **Weather Protection:** While weatherproof, avoid submerging the unit in water. Ensure the unit is securely

mounted to prevent dislodgement during strong winds or storms.



Figure 5.1: The transformer is designed to withstand various weather conditions, including rain, snow, dust, and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on.	No power to transformer. Circuit breaker tripped. Incorrect mode selected. Photocell obstructed or faulty.	Check power outlet and connections. Reset the circuit breaker. Verify operating mode (e.g., ON, AUTO, TIMER). Clean or reposition photocell sensor.
Lights stay on/off constantly in Auto mode.	Photocell sensor obstructed or exposed to artificial light.	Relocate photocell sensor away from artificial light sources and obstructions.
Lights flicker or are dim.	Overloaded circuit. Loose wiring connections. Faulty bulbs/fixtures.	Reduce total wattage of connected lights. Check and tighten all wiring connections. Inspect and replace faulty bulbs/fixtures.
Timer settings are lost after power outage.	Memory function not working (unlikely).	Reprogram the desired mode and time settings. The memory function should retain settings; if not, contact support.

7. SPECIFICATIONS

Feature	Detail
Brand	WILAWELS
Model	D12LT06
Power Source	Corded Electric
Input Voltage	120V AC

Feature	Detail
Output Voltage	12V AC / 14V AC
Wattage	300W Max
Product Dimensions	3.2"D x 5.7"W x 8.9"H (8.2cm D x 14.5cm W x 22.7cm H)
Item Weight	5.1 Kilograms
Mounting Type	Wall Mount
Certification	ETL Listed
Power Cord	ETL Certified, SJTW 18AWG/3C, 3.3ft
Sensor Cord	ETL Certified, 20AWG/2C, 6ft



Figure 7.1: Detailed dimensions of the transformer and specifications for both the power cord and sensor cord.

8. WARRANTY & SUPPORT

This WILAWELS product is ETL Listed, ensuring it meets recognized safety standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official WILAWELS website.

Keep your purchase receipt as proof of purchase for any warranty claims.

