

WILAWELS D12LT06-W01SLP1006

WILAWELS 300W Low Voltage Landscape Transformer and 10-Pack 6W LED Landscape Lights User Manual

1. INTRODUCTION

Thank you for choosing the WILAWELS 300W Low Voltage Landscape Transformer and 10-Pack 6W LED Landscape Lights. This manual provides essential information for the safe installation, operation, and maintenance of your landscape lighting system. Please read these instructions thoroughly before installation and retain them for future reference.

2. SAFETY INSTRUCTIONS

- **Electrical Safety:** Always disconnect power at the main circuit breaker before installing or servicing the transformer or lights.
- **Outdoor Use Only:** The transformer and lights are designed for outdoor use. The transformer's power cord and sensor cord are ETL-certified for outdoor installation.
- **Voltage Compatibility:** The transformer converts 120V AC input to 12V/14V AC output. Ensure your landscape lights are compatible with this low voltage.
- **Wiring:** Use only low-voltage landscape wiring suitable for outdoor burial or placement. Do not exceed the transformer's 300W capacity.
- **Water Exposure:** Ensure all connections are secure and waterproof. Avoid submerging the transformer or lights in water.
- **Circuit Protection:** The transformer includes built-in circuit protection. If an issue occurs, the transformer will automatically disconnect power. Reset the circuit breaker after troubleshooting.

3. PACKAGE CONTENTS

- 1 x WILAWELS 300W Low Voltage Landscape Transformer
- 10 x WILAWELS 6W 700LM Low Voltage LED Landscape Lights
- 1 x Detachable Photocell Sensor (pre-attached to transformer)

4. PRODUCT OVERVIEW

4.1. 300W Low Voltage Landscape Transformer

The WILAWELS 300W Low Voltage Landscape Transformer safely converts standard 120V AC household current to a low 12V/14V AC output, suitable for outdoor LED and halogen landscape lighting. It features a digital display, multiple operating modes, a detachable photocell sensor for dusk-to-dawn operation, and built-in circuit protection.



Figure 1: WILAWELS 300W Low Voltage Landscape Transformer. Shows the front panel with digital clock, mode indicators, and

control buttons (MENU, CLOCK, UP/DOWN arrows, ENTER).

LOW-VOLTAGE TRANSFORMER

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

300W



Figure 2: Transformer voltage conversion. Illustrates the 120V AC input and the 12V/14V AC low voltage output.

4.2. 6W LED Landscape Lights

The included 6W LED landscape lights are designed for pathway, spot, deck, and string lighting applications. They feature a durable aluminum lamp head, high-quality LED COB chip, and offer adjustable rotation for precise illumination. These lights are IP65 waterproof and built to withstand various outdoor conditions.



Figure 3: The 10-pack of 6W LED landscape lights, each with a ground stake and wiring.

LED LANDSCAPE LIGHT COMPONENT



Figure 4: Detailed view of a single LED landscape light, showing its dimensions (10.5cm/4.1" lamp head, 6cm/2.4" depth, 23cm/9" total height, 15.5cm/6.1" stake) and adjustable rotation (270° vertical, 360° horizontal).

5. INSTALLATION

5.1. Transformer Placement

- Mount the transformer in a suitable outdoor location, ensuring it is protected from direct heavy rain and snow, and is easily accessible.
- The transformer must be installed vertically with the output terminals facing downwards.

- Ensure the 3.3ft power cord can reach a grounded 120V AC outdoor outlet.
- The 6ft photocell sensor cord allows for flexible placement of the sensor to optimize dusk-to-dawn detection.

5.2. Connecting Landscape Lights

Follow these steps to connect your low-voltage landscape lights to the transformer using appropriate low-voltage wiring (not included).

1. **Prepare Wires:** Separate the two conductors of the low-voltage wire approximately 1 inch at the connection point.
2. **Install First Tap:** Insert one conductor into the screw pin connector on the light fixture.
3. **Screw Pin into Power Cable:** Securely screw the pin into the main low-voltage power cable, ensuring good contact.
4. **Install End Tap:** Insert the second conductor into the other screw pin connector on the light fixture.
5. **Tighten Screw Collar:** Tighten the screw collar to secure both conductors and ensure a waterproof seal.
6. **Pull Test:** Gently pull on the wires to confirm they are securely connected.




 Note: Low-voltage wires and transformer are not included.



Figure 5: Visual guide for connecting low-voltage wires to the landscape lights. Steps include separating wires, installing screw pins, and tightening the collar.

Important Note: Low-voltage wires and additional connectors are not included with this bundle and must be purchased separately.

6. OPERATION

6.1. Setting the Clock

1. Press the **CLOCK** button. The hour digits will flash.
2. Use the **UP/DOWN** arrows to set the current hour.
3. Press **CLOCK** again. The minute digits will flash.
4. Use the **UP/DOWN** arrows to set the current minute.
5. Press **CLOCK** to confirm and exit clock setting.

6.2. Operating Modes

The transformer offers six operating modes to suit various lighting needs. Press the **MENU** button to cycle through the modes.



Figure 6: Overview of the six available operating modes: Manual On/Off, Auto On/Off, Timer Mode, Countdown Mode, Dusk On Timer Off, and Test Mode.

- **OFF:** Lights remain off.
- **ON:** Lights remain on continuously.
- **AUTO (Dusk to Dawn):** The photocell sensor automatically turns lights on at dusk and off at dawn.

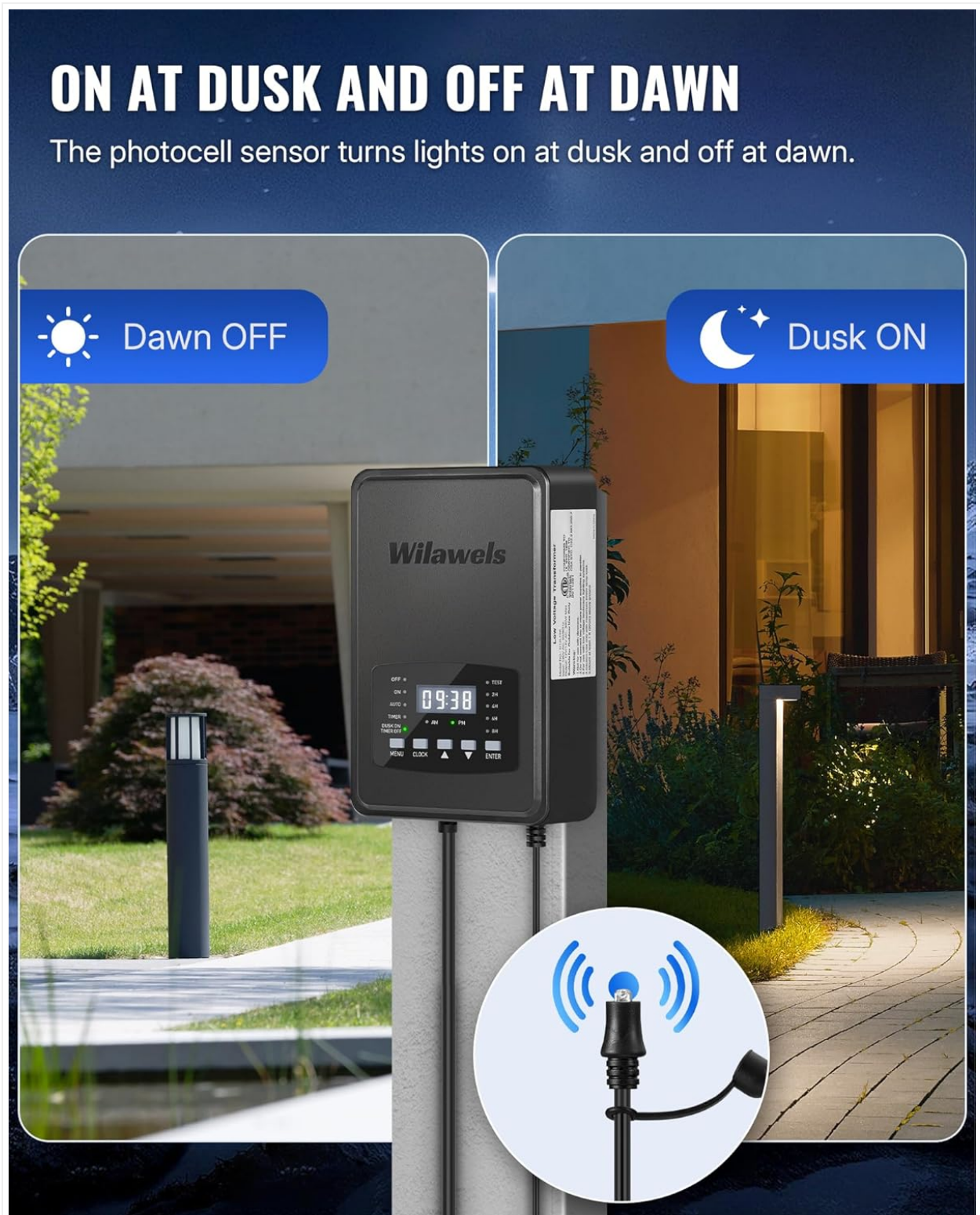


Figure 7: The photocell sensor automatically activates lights at dusk and deactivates them at dawn, demonstrating the AUTO mode.

- **COUNTDOWN (2H/4H/6H/8H):** Lights turn on at dusk and stay on for a set duration (2, 4, 6, or 8 hours). Use the **UP/DOWN** arrows to select the duration.

- **TIMER:** Allows setting specific ON and OFF times. Press **ENTER** to set the ON time, then **ENTER** again to set the OFF time. Use **UP/DOWN** arrows to adjust hours and minutes.
- **DUSK ON TIMER OFF:** Lights turn on at dusk and turn off at a specific set time. Press **ENTER** to set the OFF time. Use **UP/DOWN** arrows to adjust hours and minutes.
- **TEST:** Activates the lights for a short period (e.g., 1 minute) to verify connections and functionality.

6.3. Memory Function

The transformer features a memory function that retains your last selected settings even after a power outage, simplifying power restoration.

7. MAINTENANCE

- **Cleaning:** Periodically wipe the transformer and light fixtures with a soft, damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents.
- **Photocell Sensor:** Ensure the photocell sensor is clean and unobstructed for accurate dusk-to-dawn operation.
- **Wiring Inspection:** Regularly inspect all wiring for damage, fraying, or loose connections. Repair or replace damaged wiring immediately.
- **Light Fixture Adjustment:** Adjust the angle of the landscape lights as needed to achieve desired illumination.

8. TROUBLESHOOTING

- **Lights Not Turning On:**
 - Check if the transformer is plugged into a working outlet.
 - Verify the selected operating mode (e.g., not in OFF mode).
 - Inspect all wiring connections for looseness or damage.
 - Ensure the photocell sensor is clean and not obstructed if using AUTO or COUNTDOWN modes.
 - Check for tripped circuit protection on the transformer. Reset if necessary.
- **Circuit Protection Tripped:** If the transformer automatically disconnects, it indicates an overload or short circuit. Disconnect all lights, reset the circuit breaker on the transformer, and reconnect lights one by one to identify the faulty fixture or wiring section.
- **Inaccurate Dusk-to-Dawn Operation:** Ensure the photocell sensor is not covered, dirty, or exposed to artificial light sources (e.g., porch lights) that might interfere with its detection of natural light levels.

9. SPECIFICATIONS

9.1. 300W Low Voltage Landscape Transformer

- **Model:** D12LT06-W01SLP1006 (part of bundle)
- **Input Voltage:** 120V AC
- **Output Voltage:** 12V/14V AC
- **Max Wattage:** 300W
- **Certifications:** ETL Certified
- **Power Cord Length:** 3.3 ft

- **Photocell Sensor Cord Length:** 6 ft
- **Features:** Photocell Sensor, 6 Operating Modes, Circuit Protection, Memory Function

9.2. 6W LED Landscape Lights

- **Wattage:** 6W per light
- **Lumen Output:** 700 LM per light
- **Color Temperature:** 3000K (Warm White)
- **Lifespan:** 50,000 hours
- **Beam Angle:** 120°
- **Waterproof Rating:** IP65
- **Working Temperature:** -4°F to 130°F (-20°C to 54°C)
- **Material:** Aluminum Lamp Head
- **Adjustability:** 270° Vertical Rotation, 360° Horizontal Rotation

6W LED LOW VOLTAGE LANDSCAPE LIGHTS



ETL Certified



IP65
Waterproof



50,000 HOURS
Lifespan



3000K
Warm White



700
Lumens



120°
Beam Angel



-4°F~130°F
Working Temperature Range



Figure 8: Key features of the 6W LED landscape lights, including IP65 waterproof rating, 50,000-hour lifespan, 3000K warm white, 700 lumens, 120° beam angle, and -4°F~130°F working temperature range.

10. WARRANTY AND SUPPORT

WILAWELS products are designed for durability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official WILAWELS website. Please have your model number (D12LT06-W01SLP1006) available when contacting support.

