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WILAWELS A03LT06

WILAWELS 120W Low Voltage Transformer A03LT06 User Manual

Model: A03LT06

1. Introduction

Thank you for choosing the WILAWELS 120W Low Voltage Transformer A03LT06. This device is designed to convert standard 120V AC household current to a safe 12V DC low voltage, suitable for various landscape and outdoor lighting applications. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your transformer. Please read it thoroughly before use and retain it for future reference.

2. Important Safety Information

- **Read all instructions:** Before installing or operating the transformer, carefully read and understand all instructions provided in this manual.
- **Electrical Safety:** Always disconnect power at the source before performing any installation, maintenance, or troubleshooting. Ensure all connections are secure and properly insulated.
- **Outdoor Use:** This transformer is designed for outdoor use and is weatherproof. However, avoid submerging the unit in water.
- **Load Capacity:** Do not exceed the maximum load capacity of 120W. Overloading can damage the transformer and pose a fire hazard.
- **Wiring:** Use only low-voltage landscape lighting wire suitable for outdoor direct burial or approved for outdoor use.
- **Grounding:** Ensure the transformer is properly grounded according to local electrical codes.
- **Children and Pets:** Keep the transformer and wiring out of reach of children and pets.

3. Product Overview

The WILAWELS A03LT06 transformer is an electronic low-voltage power supply featuring a robust design and multiple operating modes for versatile landscape lighting control.

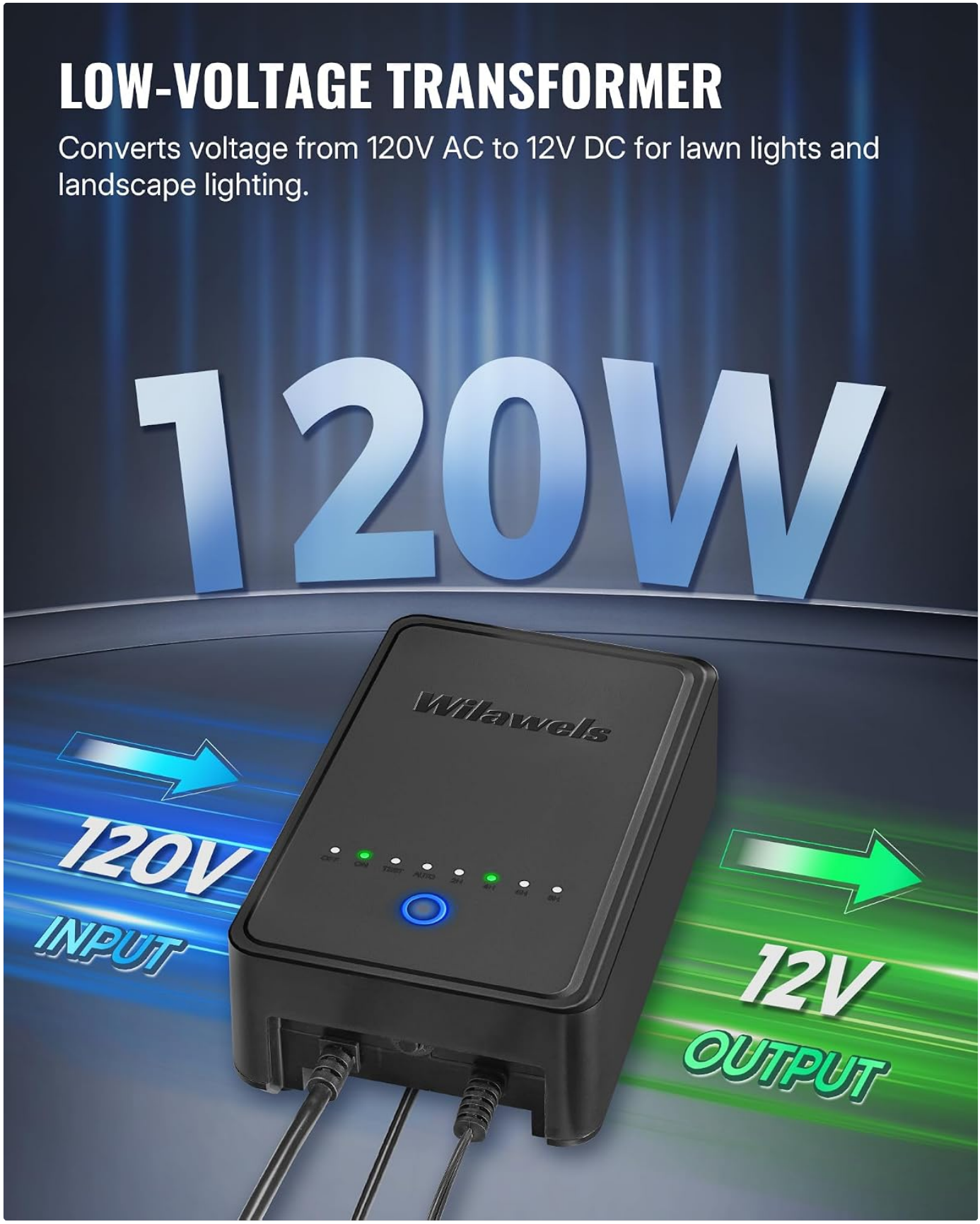


Image: The WILAWELS 120W Low Voltage Transformer, illustrating its function of converting 120V AC input to 12V DC output for landscape lighting.

Key Features:

- **120W Power Output:** Capable of powering a variety of low-voltage landscape lights.
- **Multiple Operating Modes:** Offers Manual On/Off, Auto (Dusk to Dawn), Countdown, and Test modes.
- **Photocell Sensor:** Enables automatic dusk-to-dawn operation.

- **Weatherproof Design:** Built-in circuit breaker provides protection against rain, snow, and dust.
- **Safety Protections:** Includes overheat, overload/short circuit, and corrosion resistance.
- **ETL Certified:** Ensures compliance with North American safety standards.

4. Installation

Installation of the WILAWELS A03LT06 transformer is designed to be straightforward. Follow these steps for proper setup.

4.1 Unpacking and Inspection

- Carefully remove the transformer from its packaging.
- Inspect the unit for any signs of damage. Do not install if damaged.
- Ensure all components are present: transformer unit, power cord, and photocell sensor cord.



Image: The transformer unit showing its dimensions (12cm/4.7in height, 7.5cm/3in width, 5cm/2in depth) and specifications for the ETL Certified power cord (18AWG/3C, 6.3Ft) and sensor cord (20AWG/2C, 6.8Ft).

4.2 Mounting the Transformer

- Choose a suitable outdoor location near a 120V AC GFCI (Ground Fault Circuit Interrupter) protected outlet.
- Mount the transformer vertically on a wall or post using appropriate hardware (not included). Ensure it is at least 1 foot (30 cm) above ground level to prevent water damage.
- Ensure the photocell sensor is not obstructed and can receive ambient light for accurate dusk-to-dawn operation.

4.3 Wiring the Landscape Lights

- Before connecting any wires, ensure the transformer is unplugged from the power outlet.
- Run your low-voltage landscape lighting cable from your lights to the transformer's output terminals.
- Strip approximately 1/2 inch (1.2 cm) of insulation from the ends of the landscape lighting cable.
- Connect the wires to the transformer's low-voltage output terminals. The transformer typically has two terminals. Ensure a secure connection.
- Verify that the total wattage of all connected lights does not exceed the transformer's 120W capacity.



Image: The transformer connected to landscape lights, illustrating the 120W power limit. Examples show it can power up to 20 x 6W lawn lights, 12 x 10W lawn lights, or 6 x 20W lawn lights.

4.4 Connecting to Power

- Once all low-voltage connections are made and secured, plug the transformer's power cord into a GFCI-protected 120V AC outdoor outlet.
- The unit is now ready for operation.

5. Operation

The WILAWELS A03LT06 transformer features a single button for easy control and mode selection.

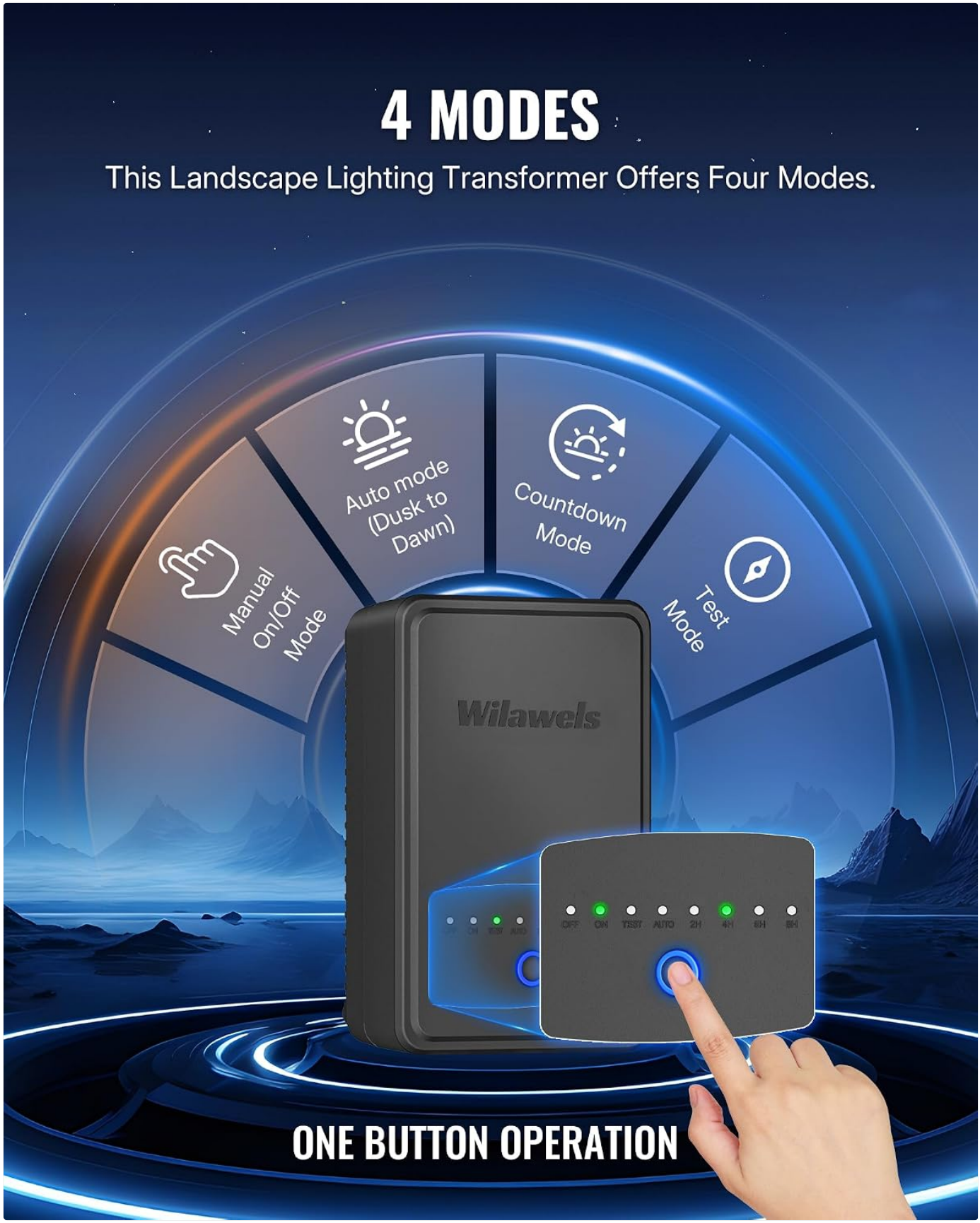


Image: The transformer's control panel, highlighting the four available operating modes: Manual On/Off, Auto mode (Dusk to Dawn), Countdown Mode (2H, 4H, 6H, 8H), and Test Mode. The central button controls mode selection.

5.1 Selecting Operating Modes

Press the central button repeatedly to cycle through the following operating modes:

- **OFF:** Lights remain off.
- **ON (Manual On/Off Mode):** Lights remain on continuously until manually turned off or mode is changed.
- **TEST Mode:** Activates lights for a short period (e.g., 1 minute) to verify connections and functionality. The indicator light will show 'TEST'.
- **AUTO (Dusk to Dawn Mode):** The built-in photocell sensor automatically turns lights on at dusk and off at dawn. The indicator light will show 'AUTO'.
- **Countdown Mode (2H, 4H, 6H, 8H):** Lights turn on at dusk and remain on for the selected duration (2, 4, 6, or 8 hours) before turning off. The indicator light will show the selected hour.



Image: Illustration of the Dusk to Dawn feature, showing the photocell sensor automatically turning lights off at dawn and on at dusk.

6. Maintenance

The WILAWELS A03LT06 transformer is designed for minimal maintenance due to its durable and weatherproof construction.

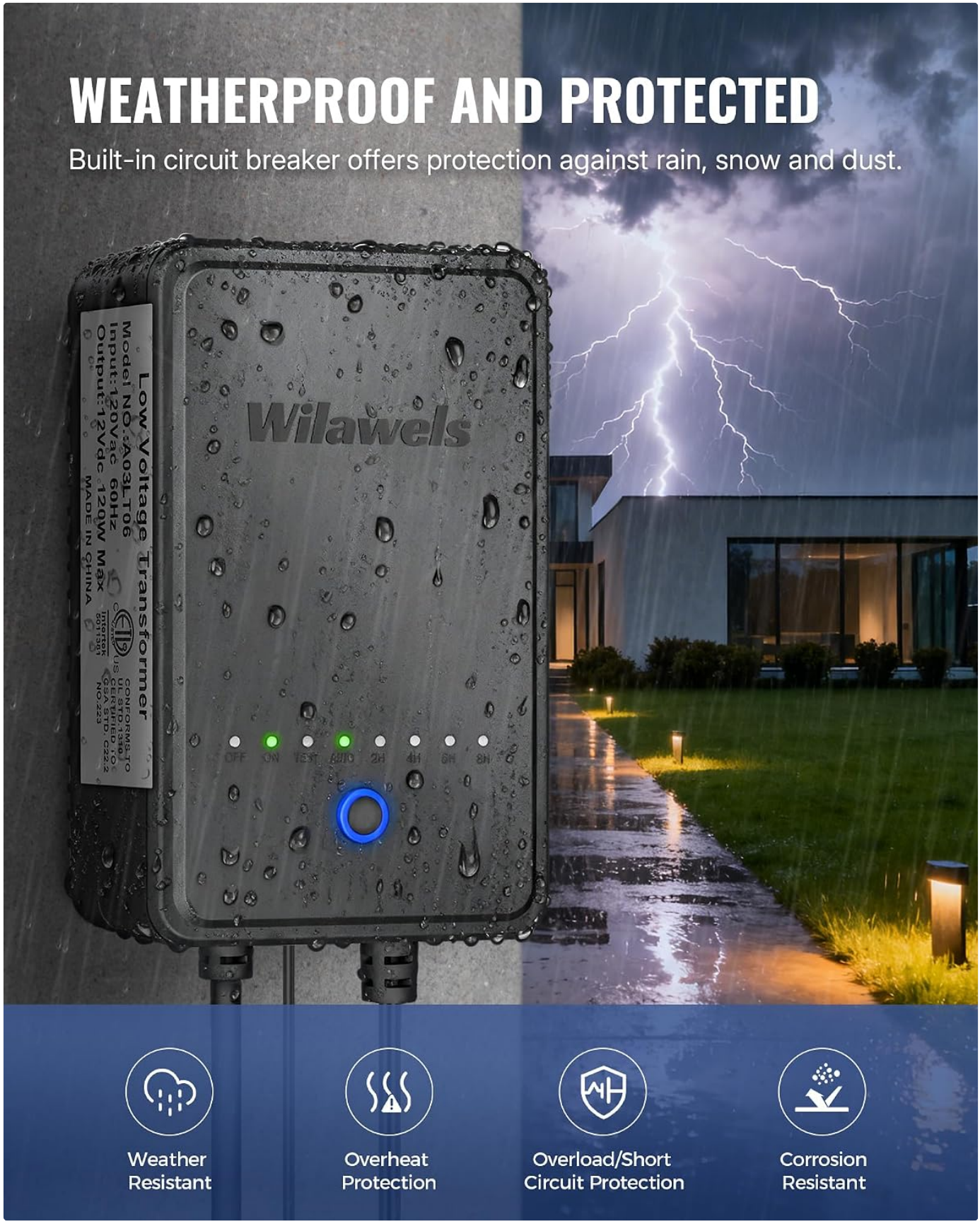


Image: The transformer unit in a rainy outdoor setting, highlighting its weatherproof and protected design. Features include Weather Resistant, Overheat Protection, Overload/Short Circuit Protection, and Corrosion Resistant.

- **Cleaning:** Periodically wipe the exterior of the transformer with a damp cloth to remove dirt and debris. Do not use harsh chemicals or abrasive cleaners.
- **Photocell Sensor:** Ensure the photocell sensor is clean and free from obstructions (e.g., leaves, dirt) to maintain accurate dusk-to-dawn operation.
- **Connections:** Annually inspect all wiring connections for tightness and signs of corrosion. Tighten any loose connections.

- **Circuit Breaker:** The built-in circuit breaker provides protection. If the lights go out unexpectedly, check if the circuit breaker has tripped. Unplug the unit, wait a few minutes, and then plug it back in. If the issue persists, check for overloaded circuits or short circuits in your lighting system.

7. Troubleshooting

If you encounter issues with your WILAWELS A03LT06 transformer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on.	No power to transformer. Loose wiring connections. Overloaded circuit. Faulty lights. Photocell obstructed (in AUTO mode).	Check power outlet and GFCI. Ensure transformer is plugged in. Verify all low-voltage connections are secure. Reduce total wattage of connected lights. Test individual lights. Clear any obstructions from the photocell sensor.
Lights flicker or are dim.	Insufficient power. Loose connections. Too many lights for cable gauge.	Check total wattage against 120W limit. Tighten all wiring connections. Consider using heavier gauge wire for longer runs or higher loads.
Lights stay on during the day (AUTO mode).	Photocell sensor obstructed or dirty. Transformer located in a shaded area.	Clean the photocell sensor. Relocate the transformer to an area with adequate ambient light.
Lights do not turn off (Countdown mode).	Incorrect mode selection. Power interruption.	Ensure the correct countdown mode (2H, 4H, 6H, 8H) is selected. If power was interrupted, the timer may reset.

8. Specifications

Feature	Detail
Model Number	A03LT06
Brand	WILAWELS
Input Voltage	120V AC, 60Hz
Output Voltage	12V DC
Max Power Output	120W
Product Dimensions	19.81 x 9.91 x 6.86 cm (7.8 x 3.9 x 2.7 inches)
Item Weight	771.11 g (1.7 Pounds)
Power Cord	ETL Certified, SJTW 18AWG/3C, 6.3 Ft
Sensor Cord	ETL Certified, SJTW 20AWG/2C, 6.8 Ft

Feature	Detail
Certifications	ETL Certified
Included Components	Low Voltage Transformer

9. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact WILAWELS customer service directly. Contact details are typically available on the manufacturer's official website or through your retailer.

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