DEWENWILS HOSL04

DEWENWILS 200W Low Voltage Landscape Transformer

Model: HOSL04 | Brand: DEWENWILS

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DEWENWILS 200W Low Voltage Landscape Transformer. This device is designed to safely convert 120V AC household voltage to a safe 12V AC for various outdoor lighting applications, including LED lighting, spotlights, and pathway lights. Please read this manual thoroughly before use to ensure proper function and safety.

2. Important Safety Information

- **Electrical Safety:** Always disconnect power before installing or servicing the transformer. Ensure all connections are secure and properly insulated.
- **Mounting:** Mount the transformer on an outdoor wall at least 1 foot (30cm) above the ground to prevent water damage and ensure proper ventilation.
- **Wiring:** Do not mix solid and stranded type wires under one screw connector. Ensure wire insulation is clear of pressure plates.
- **Overload Protection:** The transformer features built-in protection against overloads and short circuits. If an overload occurs, the unit will automatically shut off. Address the cause of the overload before restarting.
- **ETL Certified:** This product is ETL certified, ensuring it meets recognized safety standards.

3. What's in the Box

- Low voltage transformer

4. Product Features

- **120V to 12V Conversion:** Safely converts standard household voltage (120V AC) to a low safety voltage (12V AC) for landscape lighting systems.
- **Dusk to Dawn Sensor:** Automatically turns outdoor lighting on at dusk and off at dawn, providing energy-efficient operation.

- **Countdown Timer:** Offers a 1-9 hour countdown mode, allowing you to set the lights to turn off automatically after a specified duration from dusk.
- **Easy Operation & Installation:** Simple push-button controls for mode selection (Always On/Auto/Countdown Timing). Features built-in hanging holes and a 3.3ft STJW 18AWG power cord for straightforward wall mounting.
- **Durable & Weatherproof:** Constructed from high-performance metal with a waterproof coating, making it corrosion-resistant and suitable for all severe weather conditions.
- **Memory Function:** Retains the last set mode even after a power outage, eliminating the need for frequent readjustment (requires 24 hours of continuous operation in the set mode for the memory function to activate).

5. Setup and Installation

Follow these steps to install your DEWENWILS Low Voltage Landscape Transformer:

1. **Choose a Location:** Select an outdoor wall for mounting, ensuring it is at least 1 foot (30cm) above the ground.
2. **Mount the Transformer:** Use the built-in hanging holes to securely mount the transformer to the wall. Screws are typically included for this purpose.
3. **Connect Landscape Wires:** Open the transformer's cover to access the terminal output ends (12V AC). Strip the ends of your landscape lighting wires and insert them into the appropriate terminals. Tighten the screw connectors firmly (to 10lb-in) to ensure a secure connection. Do not mix solid and stranded wires under the same screw.
4. **Organize Wires:** Utilize the integrated cable clip to keep your wiring neat and tidy.
5. **Plug In:** Once all connections are secure, plug the transformer's 3.3ft STJW 18AWG power cord into a standard 120V AC outdoor outlet.

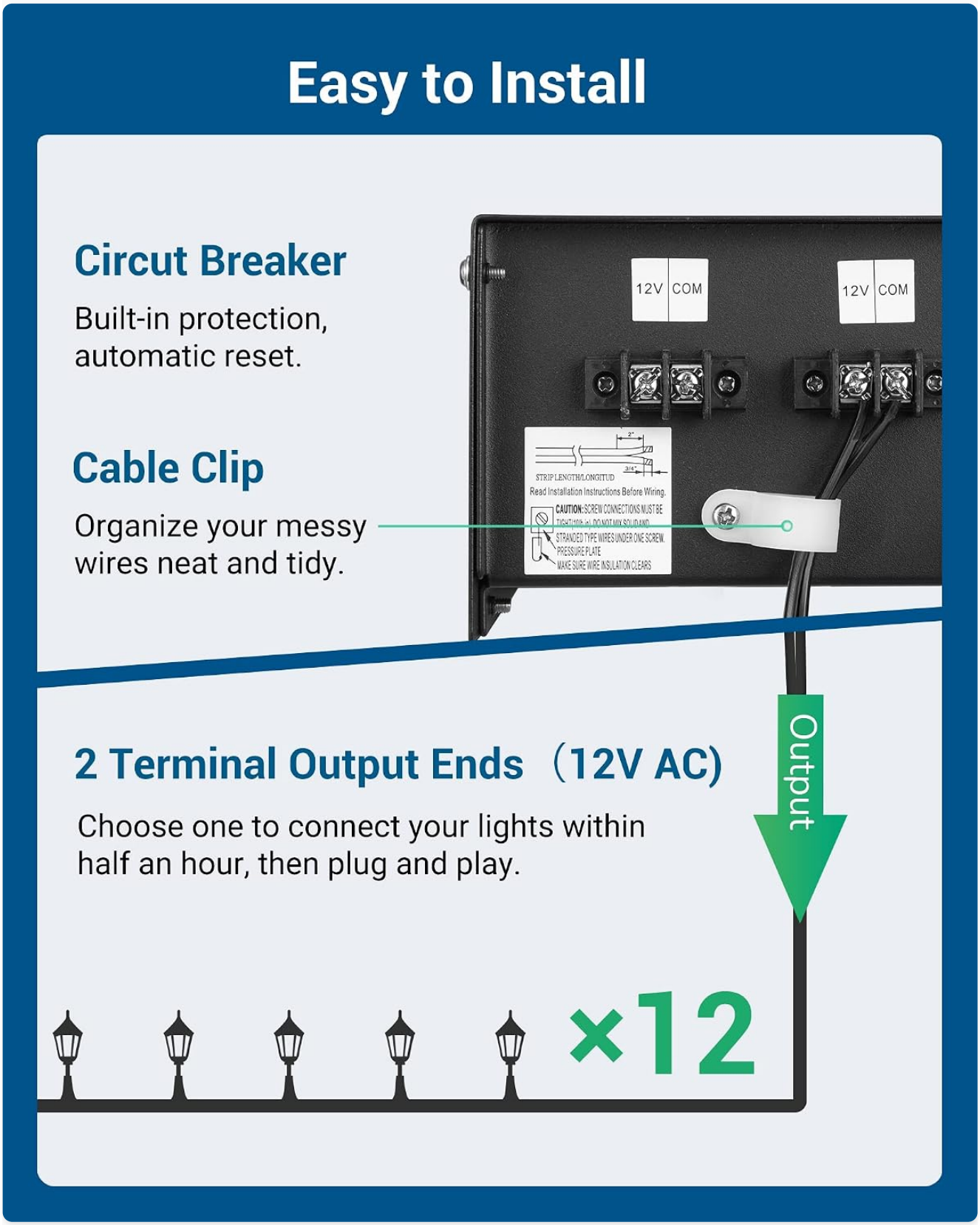


Figure 5.1: Easy Installation Steps for the Transformer.



Figure 5.2: Transformer Dimensions and Mounting Recommendation.

Video 5.1: Overview of the low voltage landscape transformer, demonstrating its features and ease of use.

6. Operating Instructions

The transformer features a simple control panel with up (▲) and down (▼) buttons to cycle through different operating modes:

- **Always On (Display 'O'):** In this mode, the landscape lights will remain on continuously throughout the day and night.
- **Auto Mode (Display 'A'):** The built-in photocell sensor will automatically turn the lights on at dusk and off at dawn.

This is an energy-saving mode that requires no manual intervention.

- **Countdown Timer (Display '1' to '9'):** When set to a number from 1 to 9, the lights will turn on at dusk and automatically turn off after the selected number of hours (e.g., '4' means lights turn off 4 hours after dusk).

To select your preferred mode, simply press the ▲ or ▼ buttons repeatedly until the desired mode (O, A, or 1-9) is displayed.



Figure 6.1: Easy Operation Modes.

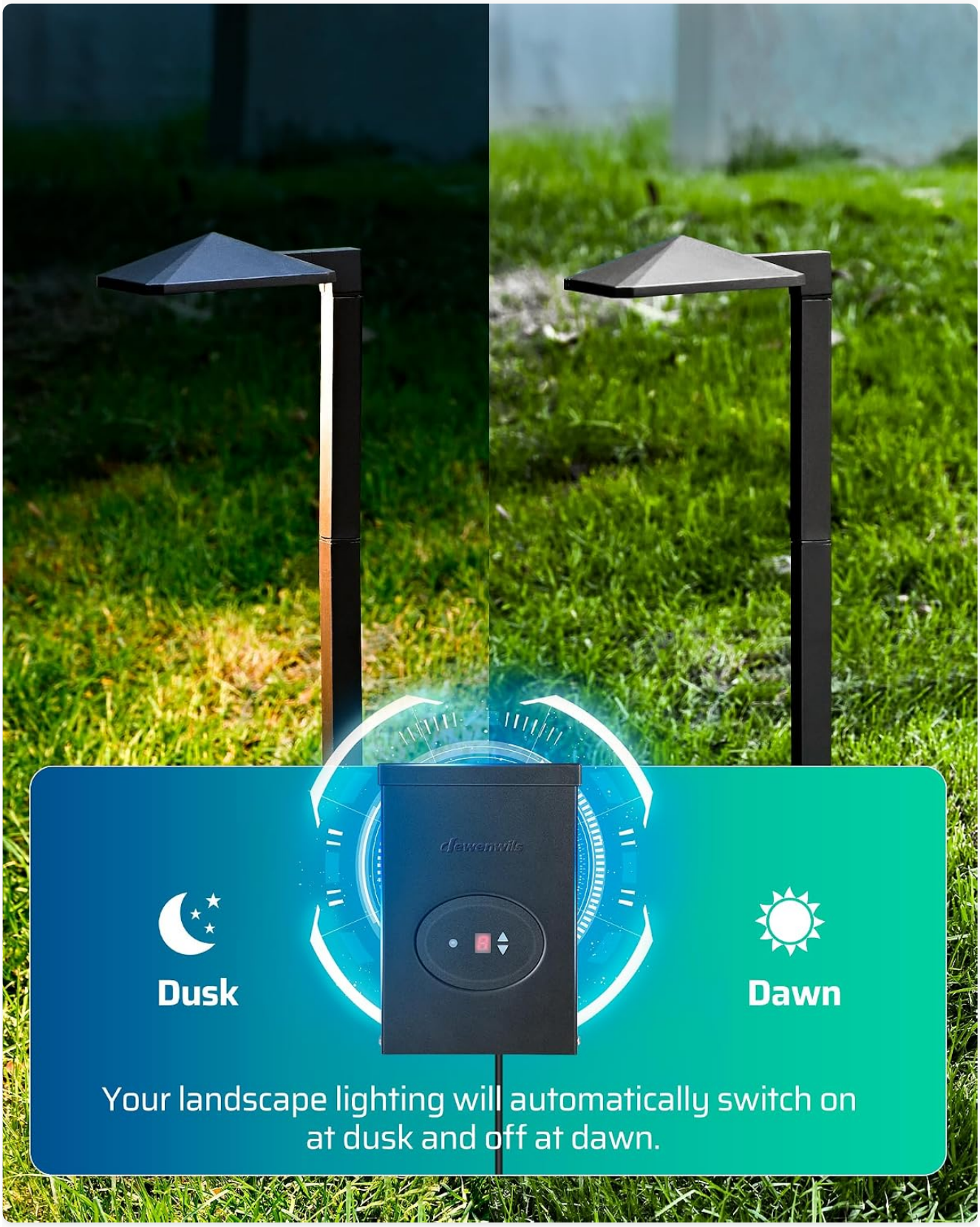


Figure 6.2: Dusk to Dawn Sensor Functionality.

7. Maintenance

To ensure the longevity and optimal performance of your DEWENWILS transformer, consider the following maintenance tips:

- **Regular Cleaning:** Periodically wipe down the exterior of the transformer with a soft, damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Inspect Connections:** Annually check all wire connections to ensure they remain tight and free from corrosion. Loose

connections can lead to poor performance or safety hazards.

- **Weather Protection:** While the transformer is weatherproof and corrosion-resistant, extreme weather conditions can still impact its lifespan. Ensure it is mounted in a location that minimizes direct exposure to heavy rain, snow, or prolonged direct sunlight if possible.
- **Photocell Sensor:** Keep the photocell sensor clean and unobstructed to ensure accurate dusk-to-dawn operation.

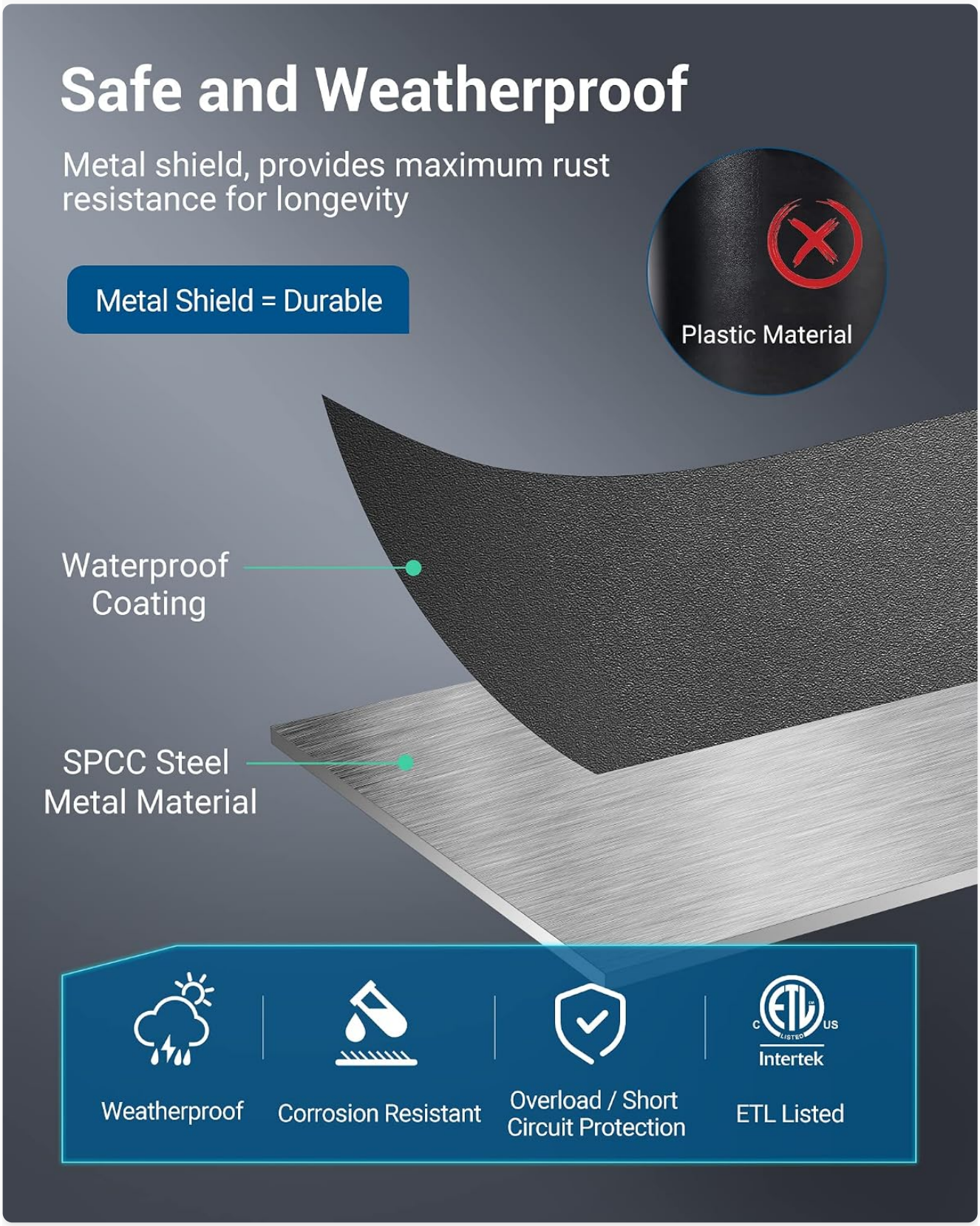


Figure 7.1: Durable and Weatherproof Construction.

8. Troubleshooting

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

- **Lights Not Turning On:**
  - Check if the transformer is properly plugged into a live outlet.
  - Verify that the operating mode is correctly set (e.g., not in 'O' mode during the day if expecting auto-off).
  - Inspect all low voltage wire connections for tightness and proper contact.
  - Check for tripped circuit breakers or blown fuses in your home's electrical panel.
  - Ensure the photocell sensor is clean and not obstructed by debris or excessive light.
- **Lights Flickering or Dim:**
  - This often indicates an insufficient power supply or too many lights connected. Ensure the total wattage of your lights does not exceed the transformer's 200W capacity.
  - Check for loose or corroded wire connections.
  - Verify that the wire gauge is appropriate for the length of your cable runs.
- **Transformer Shuts Off Unexpectedly:**
  - The built-in overload/short circuit protection may have activated. Disconnect the power, inspect your lighting system for any short circuits or damaged wires, and reduce the load if necessary. Reconnect power after resolving the issue.
  - Ensure the transformer is not exposed to extreme temperatures outside its operating range (-4°F to 110°F).

9. Specifications

Attribute	Value
Brand	DEWENWILS
Model Number	HOSL04
Product Dimensions	4"D x 6"W x 8.6"H
Item Weight	7.28 Pounds
Power Source	Corded Electric
Input Voltage	120V AC
Output Voltage	12V AC
Wattage	200W
Current Rating	16.6 Amps
Mounting Type	Wall Mount
Certifications	ETL Listed
Country of Origin	China

10. Warranty and Support

For warranty information or technical support, please contact DEWENWILS customer service. Refer to the product packaging or the official DEWENWILS website for the most up-to-date contact details and warranty terms.

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