DEWENWILS DA-60-12WA2

DEWENWILS 60W Pool Light Transformer User Manual

Model: DA-60-12WA2 | Brand: DEWENWILS

Product Overview

The DEWENWILS 60W Pool Light Transformer is designed to safely convert standard 120V AC household voltage to a low, safe 12V or 13V AC output. This makes it ideal for a variety of low-voltage lighting applications, including swimming pool lights, spa lights, fountain lights, and general landscape lighting. Its robust, waterproof design ensures reliable performance in both indoor and outdoor environments.



This image illustrates the DEWENWILS 60W Pool Light Transformer and its versatile applications for pool, spa, and landscape lighting.

Installation Guide

Before beginning installation, ensure the main power supply is turned off at the circuit breaker to prevent electrical shock. It is recommended that installation be performed by a qualified electrician.

Mounting the Transformer

1. Select a suitable mounting location. The transformer should be mounted at least 1 foot (30cm) above ground, with the arrows on the unit pointing upwards for proper heat dissipation.
2. Use appropriate screws and anchors (not included) to securely fix the transformer to a wall or sturdy surface using the integrated mounting brackets.



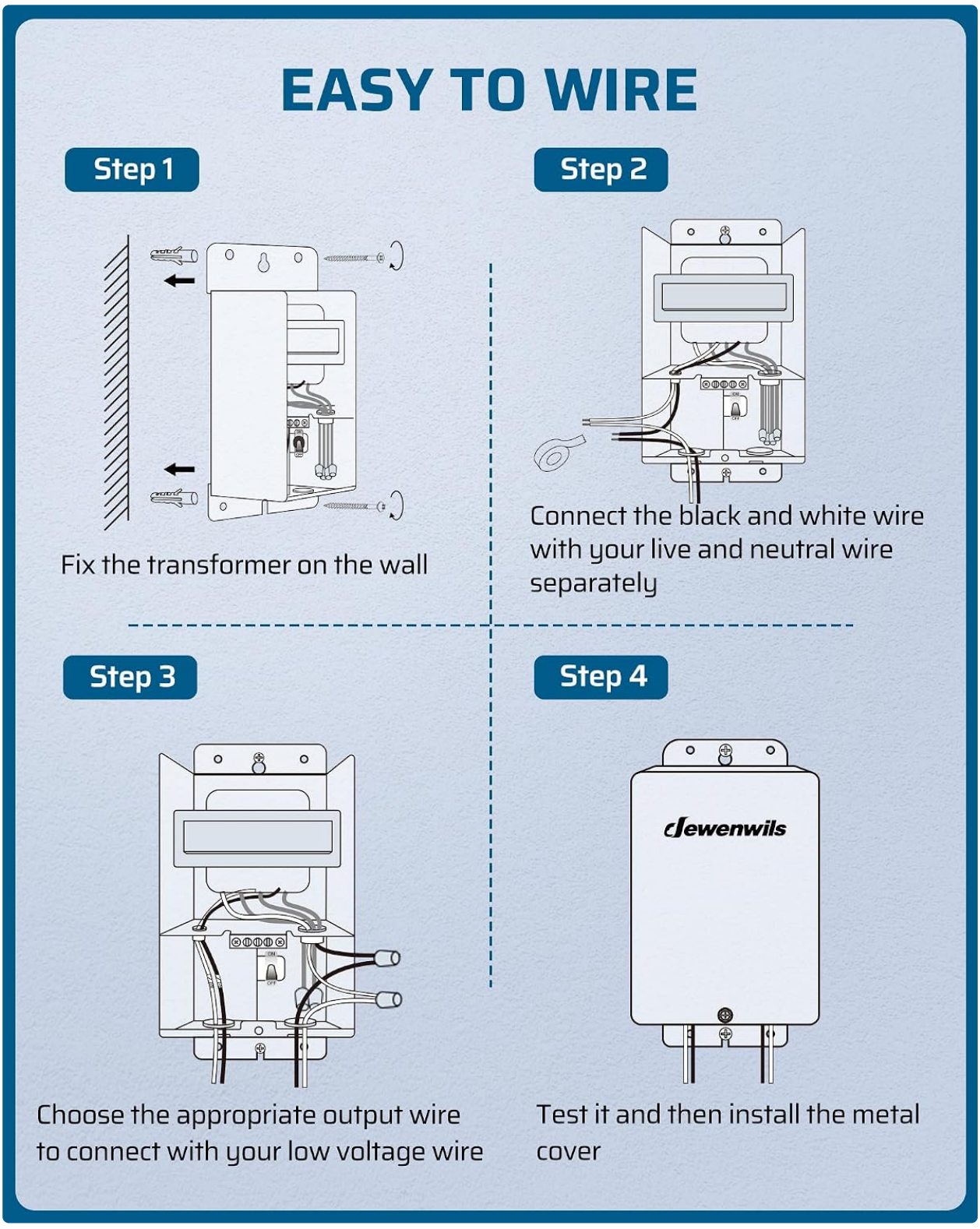
Front view of the transformer, showing its mounting points and product label.

Wiring Instructions

The transformer features separate high voltage and low voltage compartments for safety and convenience.

1. **Step 1: Fix the transformer on the wall.** Securely mount the unit as described above.

2. **Step 2: Connect the black and white wire with your live and neutral wire separately.**Route the 120V AC input wires through the designated knockouts into the high voltage compartment. Connect the live (black) wire to the transformer's black input wire and the neutral (white) wire to the transformer's white input wire. Ensure all connections are secure and insulated.
3. **Step 3: Choose the appropriate output wire to connect with your low voltage wire.**Route your low voltage lighting wires through the designated knockouts into the low voltage compartment. The transformer provides 12V and 13V AC output options. Connect your low voltage lighting system to the desired output terminals.
4. **Step 4: Test it and then install the metal cover.**After all wiring is complete and connections are verified, restore power to test the lighting system. Once confirmed operational, securely install the metal cover to protect the internal components.



Detailed steps for mounting and wiring the DEWENWILS transformer.

This image shows a person performing the installation, highlighting the accessible wiring compartments.

Operating Instructions

Voltage Selection

The DEWENWILS 60W transformer offers two output voltage options: 12V AC and 13V AC. These options provide flexibility for various lighting setups and help compensate for voltage drop over longer cable runs.



Visual representation of the transformer's input and selectable output voltages.

Load Capacity

It is crucial to ensure that the combined wattage of all connected low-voltage lighting fixtures does not exceed 80% of the transformer's total capacity (60 Watts). For this 60W model, the total load should not exceed 48 Watts to allow for safe operation and prevent overloading.

Cable Length and Gauge Recommendations

The choice of output voltage (12V or 13V) and wire gauge depends on the total wattage of your lights and the length of the cable run. Refer to the table below for guidance:



This table provides recommendations for cable length and gauge based on the selected voltage tap and total wattage.

Care and Maintenance

Durability and Protection

The DEWENWILS transformer is built for longevity and outdoor use. It features a robust construction designed to withstand environmental elements.

- **Weatherproof:** The unit is well-sealed to protect against dust and splashes of water from any direction, making it suitable for outdoor installations.
- **Anti-Corrosion:** Constructed with SPCC steel metal material and a waterproof coating, the transformer is designed to resist corrosion, ensuring a long service life even in challenging conditions.
- **Heat Dissipation:** The design incorporates features for efficient heat dissipation, preventing overheating and contributing to the unit's durability.



Key features of the transformer's secure design for outdoor use.



The transformer is designed to be weather-resistant, protecting it from rain and dust.

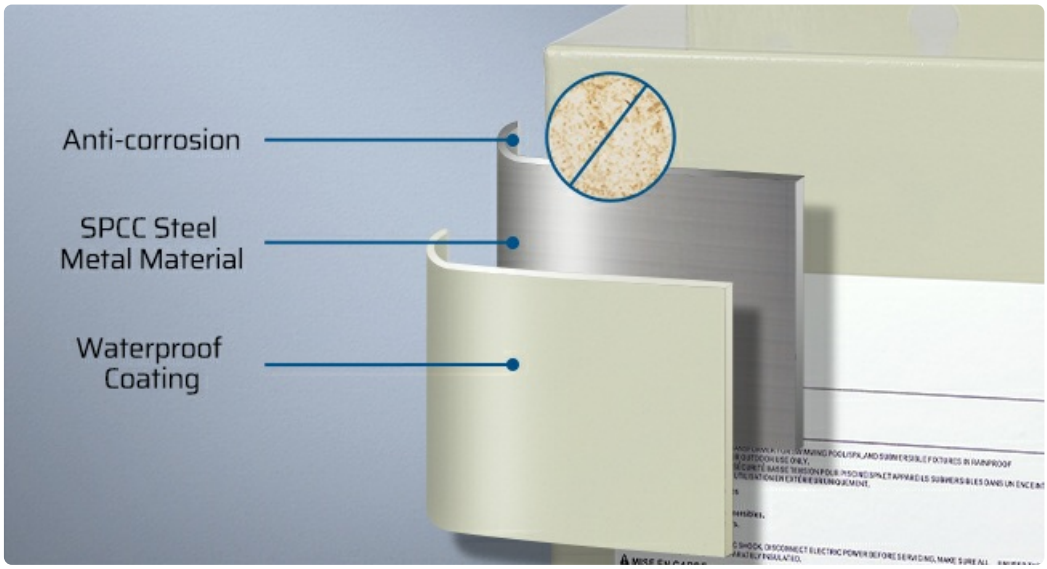


Illustration of the anti-corrosion properties of the transformer's materials.

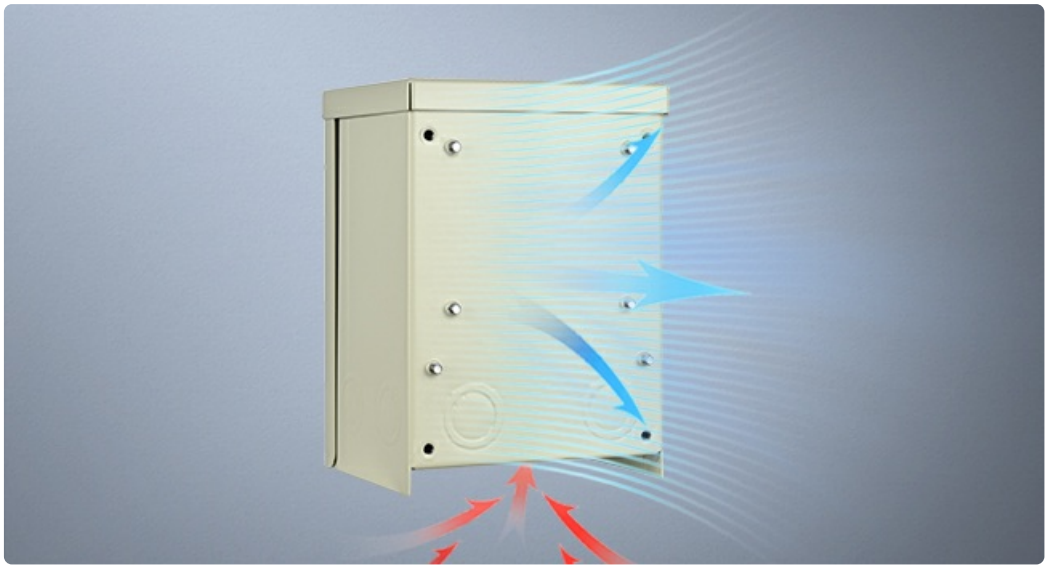


Diagram showing the effective heat dissipation design of the transformer.

Troubleshooting

Common Issues

- **Lights Not Working:**
  - Check if the transformer is receiving 120V AC input power.
  - Verify all wiring connections are secure and correct, both on the input and output sides.
  - Ensure the total wattage of connected lights does not exceed 80% of the transformer's capacity (48 Watts for this 60W model).
  - Check if the automatic circuit breaker has tripped. If so, reset it after identifying and resolving the overload or short circuit issue.
  - Inspect individual light fixtures and bulbs for damage or malfunction.
- **Buzzing Noise:**
  - A slight hum is normal for some transformers. However, excessive buzzing may indicate an issue.
  - Ensure the transformer is securely mounted and not vibrating against the mounting surface.
  - Check for loose internal components (though this should not be an issue with a new, sealed unit).
  - Verify the load is within the recommended limits. Overloading can cause increased noise.
- **Intermittent Operation:**
  - Check for loose wire connections that may be making intermittent contact.
  - Ensure the power source is stable and not experiencing fluctuations.
  - Inspect for any signs of water ingress or damage to the unit or wiring, especially in outdoor environments.

Technical Specifications

Feature	Specification
Brand	DEWENWILS
Model Number	DA-60-12WA2
Input Voltage	120V AC
Output Voltage	12V/13V AC
Wattage	60 Watts
Current Rating	3 Amps
Power Source	AC
Mounting Type	Wall Mount
Product Dimensions (D x W x H)	5.08" x 5.67" x 8.04"
Item Weight	5.73 Pounds
First Available Date	November 7, 2022



Detailed dimensions of the transformer unit.

Important Safety Information

WARNING: Risk of Electric Shock. Disconnect electric power before servicing. Make sure all unused taps are individually insulated.

- This low voltage safety isolation transformer is designed for swimming pool, spa, and submersible fixtures in rainproof enclosure.
- Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI).
- Do not connect two or more power supplies in parallel.
- Mount at least 1 foot (30cm) above ground, with arrows up.
- Always follow local electrical codes and regulations during installation.
- Do not attempt to open or modify the transformer. Refer all servicing to qualified personnel.

Warranty and Customer Support

For warranty information, technical support, or any questions regarding your DEWENWILS 60W Pool Light Transformer, please contact DEWENWILS customer service directly. Refer to the product packaging or the official DEWENWILS website for contact details.

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