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DEWENWILS 065cdd11-cd0c-4ec9-8502-97bba2fddac2

DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer and EDISHINE Wire Connectors User Manual

Comprehensive instructions for the installation, operation, and maintenance of your DEWENWILS landscape lighting system.

1. Important Safety Instructions

Please read and understand all instructions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- This transformer is for outdoor use only.
- Do not immerse the transformer in water.
- Mount the transformer at least 1 foot (30.5 cm) above ground level.
- Connect the transformer to a 120V AC grounded outlet.
- Ensure all connections are secure and weatherproof.
- Do not overload the transformer. The total wattage of connected lights must not exceed 300W.
- Disconnect power before servicing or making any adjustments.
- Use only low voltage landscape luminaires. Do not connect submersible pumps or fittings.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. Product Overview

The DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer provides intelligent control for your outdoor lighting. Paired with EDISHINE Low Voltage Wire Connectors, it offers a complete solution for a customizable and efficient landscape lighting system.

Transformer Features:

- **300W Power Output:** Capable of powering a wide range of low voltage landscape lights.
- **Wi-Fi Connectivity:** Control your lighting via the DEWENWILS APP (2.4GHz Wi-Fi only).
- **Voice Control:** Compatible with Alexa and Google Assistant for hands-free operation.

- **3 Independent Zones:** Each zone offers separate control and selectable 12V or 14V AC output.
- **5 Timer Modes:** Schedule, Circulate, Random, Countdown, and Astronomical modes for flexible automation.
- **Clamp-Connect Terminals:** Designed for easier and quicker wiring.

Wire Connector Features:

- **20-Pack Connectors:** Sufficient quantity for multiple light installations.
- **Dual Light Connection:** Each connector can connect two low voltage lights, simplifying wiring.
- **Wide Compatibility:** Supports 12/14/16/18 gauge cables and SPT-1W/2W power cords.
- **Durable Construction:** Made with anti-corrosion PBT plastic body and nickel-coated brass pins for weatherproof performance.



Image 2.1: The DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer shown with the included EDISHINE Low Voltage Wire Connectors.

3. Package Contents

Verify that all items are present in the package:

- DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer (1 unit)
- EDISHINE Low Voltage Wire Connectors (20 units)

- User Manual (this document)

4. Specifications

Specification	Value
Brand	DEWENWILS
Model Number	065cdd11-cd0c-4ec9-8502-97bba2fddac2
Power Source	Corded Electric
Input Voltage	120V AC
Output Voltage	12V AC / 14V AC (selectable per zone)
Max Power Output	300W
Number of Zones	3 Independent Zones
Wi-Fi Frequency	2.4GHz (only)
Mounting Type	Surface Mount
Compatible Wire Gauges (Connectors)	12/14/16/18 AWG (Power Cord), 18/20 AWG (Light Cord)
Certification	UL Listed
Dimensions (Approximate)	13.7" (H) x 6.6" (W) x 3.9" (D)
Heavy Duty Cord Length	3.3 FT (18AWG)



Image 4.1: Approximate dimensions of the DEWENWILS transformer and a visual representation of the 5 available timer modes.

5. Setup and Installation

5.1 Transformer Installation

1. **Choose a Location:** Select a suitable outdoor location for the transformer. It must be mounted vertically on a flat surface, at least 1 foot (30.5 cm) above ground level, and within reach of a 120V AC grounded outlet.
2. **Mount the Transformer:** Securely mount the transformer to the chosen surface using appropriate hardware (not included). Ensure it is stable and cannot be easily dislodged.
3. **Power Connection:** Plug the transformer's heavy-duty cord into a 120V AC grounded outdoor outlet. Do not turn on the power until all low voltage wiring is complete.



Image 5.1: Diagram illustrating the 120V AC input and the 12V/14V AC low voltage output of the DEWENWILS transformer.

5.2 Wiring Low Voltage Lights to the Transformer

The transformer features three independent zones, each with selectable 12V or 14V AC output. Plan your lighting layout to distribute the load across these zones.

1. **Prepare Wires:** Ensure your low voltage landscape lighting cables are of appropriate gauge (typically 12-18 AWG for power cords).
2. **Connect to Zones:** Open the transformer's wiring compartment. For each zone, insert the ends of your low voltage cable into the clamp-connect terminals. Ensure a secure connection by pressing down the clamps. Observe polarity if required by your lights.
3. **Select Voltage:** For each zone, select either 12V or 14V AC output based on your lighting requirements. This is typically done via a switch or setting within the transformer's interface.



Image 5.2: Close-up view of the DEWENWILS transformer's three independent zones, showing the clamp-connect terminals and voltage selection.

5.3 EDISHINE Wire Connector Usage

These connectors allow for easy and secure connection of your low voltage lights to the main power cable.

1. **Prepare Cables:** Ensure the main power cord (12/14/16/18 AWG) and the light cord (18/20 AWG) are ready for connection. No stripping of wires is required.
2. **Open Connector:** Open the EDISHINE wire connector by pressing the release tabs.

3. **Insert Wires:** Carefully insert the main power cord into the larger slot and the light cord into the smaller slot. Ensure the wires are fully seated.
4. **Close Connector:** Close the connector firmly until it clicks, securing both wires. The internal pins will pierce the wire insulation to make contact.
5. **Repeat:** Use one connector per light fixture. Each connector can connect two low voltage lights to the main power cable.

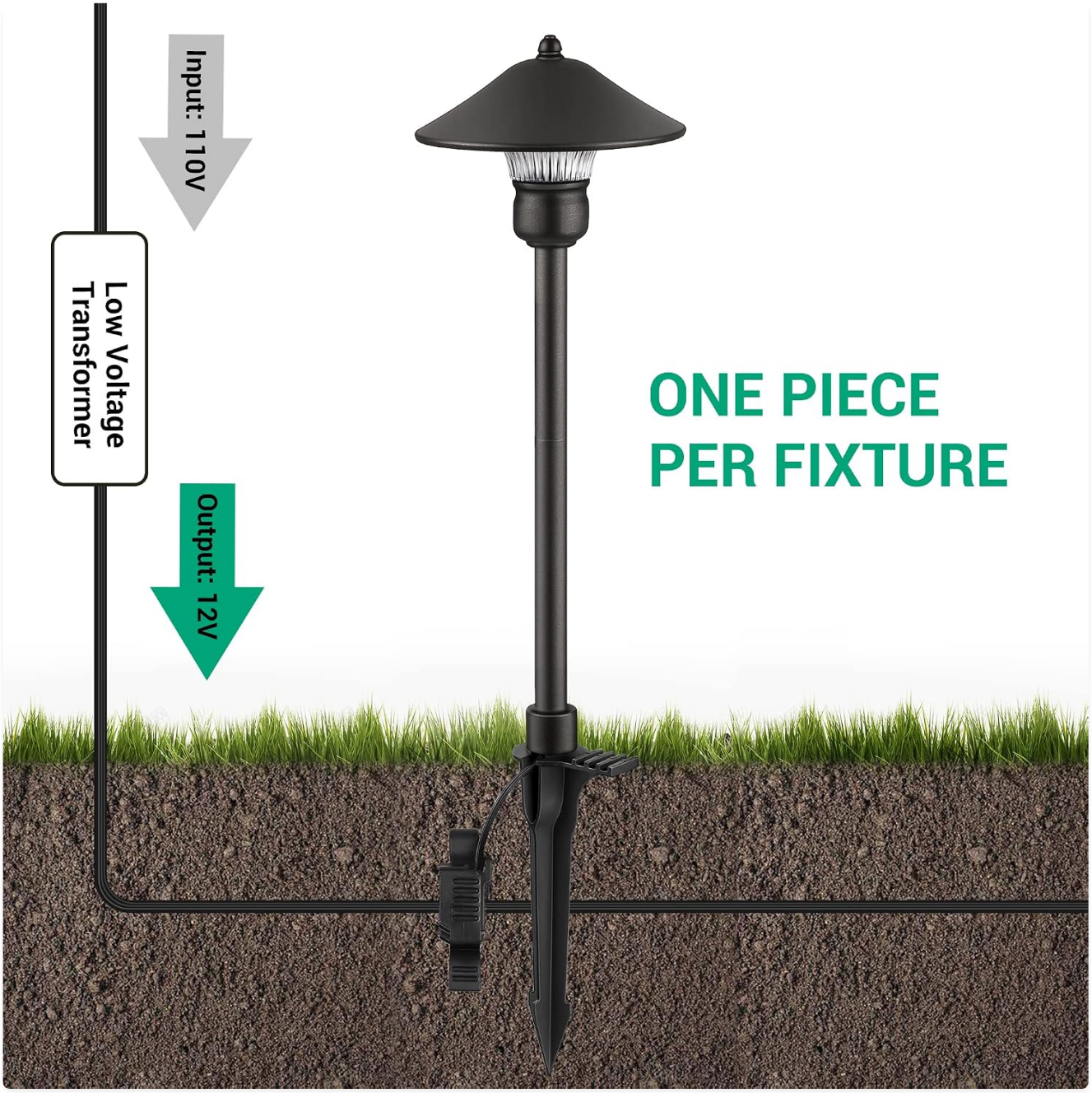


Image 5.3: Step-by-step guide for installing the EDISHINE Low Voltage Wire Connectors.



Image 5.4: Diagram showing the compatible wire gauges for the EDISHINE wire connectors: 12/14/16/18 AWG for the power cord and 18/20 AWG for the light cord.

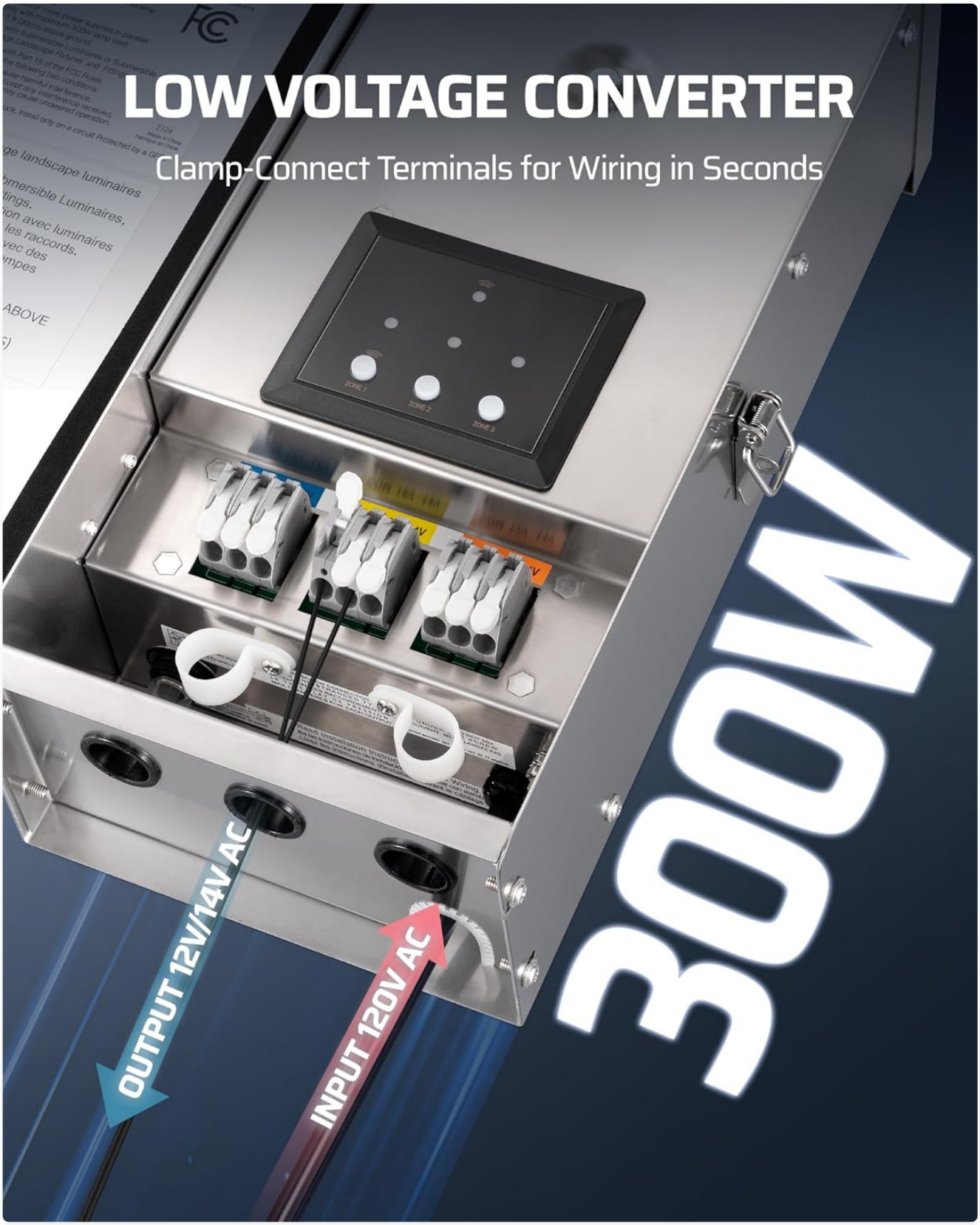


Image 5.5: Illustration demonstrating the connection of one low voltage light fixture to the main power cable using a single EDISHINE connector.

6. Operating Instructions

6.1 Initial Wi-Fi Setup and App Pairing

To unlock the smart features of your DEWENWILS transformer, you need to connect it to your home Wi-Fi network via the DEWENWILS APP.

1. **Download the App:** Search for "DEWENWILS" in your smartphone's app store (iOS or Android) and download the application.
2. **Register/Log In:** Open the DEWENWILS APP and create a new account or log in if you already have one.
3. **Add Device:** In the app, tap the "+" button to add a new device.
4. **Pairing Mode:** Follow the on-screen instructions in the app to put your transformer into pairing mode. This usually involves pressing and holding a button on the transformer until an indicator light flashes.
5. **Connect to Wi-Fi:** Select your 2.4GHz Wi-Fi network and enter the password. The transformer only supports 2.4GHz Wi-Fi.
6. **Complete Setup:** Once connected, you can name your transformer and individual zones within the app.



Image 6.1: Visual representation of the DEWENWILS app interface and integration with voice assistants like Alexa and Google Assistant.

6.2 App and Voice Control

- **App Control:** Use the DEWENWILS APP to turn lights on/off, adjust settings for each zone, and set schedules from anywhere with an internet connection.
- **Voice Control:** Link your DEWENWILS account with Amazon Alexa or Google Assistant. Once linked, you can use voice commands such as "Alexa, turn on Zone 1" or "Hey Google, set the backyard lights to 12V."

6.3 Zone Control and Voltage Selection

Each of the three zones can be controlled independently via the app or the physical buttons on the transformer.

- **Independent On/Off:** Turn each zone on or off separately.
- **Voltage Output:** Select between 12V AC and 14V AC output for each zone to optimize light brightness and cable run length. Refer to your light fixture specifications for recommended voltage.

6.4 Timer Modes

The DEWENWILS APP offers five distinct timer modes to automate your landscape lighting:

- **Schedule:** Set specific on/off times for your lights on chosen days of the week.
- **Circulate:** Program lights to cycle on and off at regular intervals.
- **Random:** Lights turn on and off at random times within a set period, providing a lived-in appearance for security.
- **Countdown:** Set a timer for lights to turn off after a specified duration.
- **Astronomical:** Lights turn on at sunset and off at sunrise, automatically adjusting for seasonal changes.



Image 6.2: Examples of various landscape lighting applications, showcasing the versatility of the DEWENWILS system.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your landscape lighting system.

- **Cleaning:** Periodically wipe the transformer's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspect Wiring:** Annually inspect all low voltage wiring and connections for any signs of damage, fraying, or

corrosion. Ensure wire connectors are securely closed.

- **Check for Overload:** Ensure the total wattage of connected lights does not exceed the transformer's 300W capacity.
- **Environmental Protection:** Keep the transformer clear of debris, leaves, and excessive moisture. Ensure proper ventilation.

8. Troubleshooting

If you encounter issues with your DEWENWILS landscape lighting system, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Lights are not turning on.	No power to transformer. Loose wiring connections. Overloaded circuit. Faulty light fixture. Incorrect timer setting.	Check power outlet and circuit breaker. Ensure all wires are securely connected to the transformer and light fixtures. Reduce the number of lights or replace with lower wattage bulbs. Test individual light fixtures. Verify app or manual timer settings.
Wi-Fi connection fails or disconnects.	Incorrect Wi-Fi password. Transformer too far from router. Router is 5GHz only. Network interference.	Re-enter Wi-Fi password in the app. Move transformer closer to the Wi-Fi router or use a Wi-Fi extender. Ensure your router supports 2.4GHz Wi-Fi. The transformer does not support 5GHz. Restart router and transformer.
Lights are dim or flickering.	Voltage drop due to long cable runs. Loose connections. Overloaded circuit.	Switch to 14V AC output for the affected zone if available. Use heavier gauge wire for longer runs. Check and tighten all wire connections. Reduce the load on the circuit.
App control is unresponsive.	No internet connection. App requires update. Transformer offline.	Check your smartphone's internet connection. Update the DEWENWILS APP to the latest version. Verify transformer's Wi-Fi connection status. Restart transformer if necessary.

9. Warranty and Support

DEWENWILS products are designed for reliability and performance. For specific warranty information, please refer to the documentation included with your purchase or visit the official DEWENWILS website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact DEWENWILS customer service through their official channels. You can often find contact information on the manufacturer's website or within the DEWENWILS APP.

Visit the official DEWENWILS Store for more products and support:DEWENWILS Store on Amazon

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