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Dewenwils TD-300S-12WF-2

DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer User Manual

Model: TD-300S-12WF-2

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer. This device is designed to convert 120V AC household current to a safer 12V/14V AC for outdoor landscape lighting systems. It features Wi-Fi connectivity for smart control via the DEWENWILS app and voice assistants, along with three independent zones for flexible lighting management.

2. Safety Information

- **Outdoor Use Only:** This transformer is suitable for outdoor use in wet locations.
- **Power Source:** Connect only to a 120V AC, 60Hz grounded outlet.
- **Ground Fault Circuit Interrupter (GFCI):** Always connect to a GFCI-protected receptacle.
- **Mounting Height:** Mount the transformer at least 12 inches (30cm) above ground level.
- **Load Capacity:** Do not exceed the maximum output of 300W. Ensure the total wattage of connected luminaires does not exceed this limit.
- **Wiring:** Use only low voltage landscape luminaires and fittings. Ensure all connections are secure and waterproof.
- **Submersible Use:** Not suitable for use with submersible luminaires, submersible pumps, or fittings.
- **Overcurrent/Overload Protection:** The unit includes built-in protection. If an overload occurs, the unit will automatically shut off. Disconnect the load and reset if necessary.

3. Package Contents

Please verify that all items are present upon unpacking:

- DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer
- Instruction Manual
- Mounting Hardware (screws, anchors)

4. Specifications

Specification	Value
Input Voltage	120V AC, 60Hz
Output Voltage	12V AC / 14V AC
Max Power Output	300W
Current Rating	25 Amps
Wi-Fi Frequency	2.4GHz (only)
Number of Zones	3 Independent Zones
Housing Material	Stainless Steel
Mounting Type	Wall Mount
Product Dimensions	9.91 x 16.76 x 34.8 cm
Item Weight	6.4 kg
Certifications	FCC, UL

5. Setup

5.1 Mounting the Transformer

1. Choose a suitable outdoor location for mounting, ensuring it is at least 12 inches (30cm) above ground level.
2. Use the provided mounting hardware to securely attach the transformer to a wall or sturdy surface.



Figure 1: Wall mounting instructions, showing the transformer mounted at least 12 inches above ground.

5.2 Wiring Landscape Lights

The transformer features upgraded clamp-connect terminals for easy wiring.

1. Ensure the transformer is unplugged from the power source.
2. Open the transformer's cover to access the wiring terminals.
3. For each zone, select either 12V or 14V AC output based on your lighting requirements. The 14V option is generally

recommended for longer wire runs to compensate for voltage drop.

4. Insert the low voltage wires from your landscape lights into the corresponding clamp-connect terminals for each zone. No tools are required for this connection.
5. Ensure all wires are securely fastened within the terminals.



Figure 2: Upgraded clamp-connect terminals for tool-free wiring.

5.3 Connecting to Wi-Fi and App Pairing

The transformer connects to your home Wi-Fi network for smart control. It supports **2.4GHz Wi-Fi only**. If your router supports both 2.4GHz and 5GHz, ensure your device is connected to the 2.4GHz network during pairing.

1. Download the DEWENWILS APP from your smartphone's app store.
2. Plug the transformer into a GFCI-protected 120V AC outlet.
3. Open the DEWENWILS APP and follow the on-screen instructions to add a new device.
4. Press the "+" button on the transformer's control panel to initiate pairing mode. The indicator light will flash.
5. Complete the pairing process within the app.



Figure 3: App and voice control setup.

6. Operating the Transformer

The DEWENWILS transformer offers multiple control options:

6.1 Manual Control

The control panel on the transformer allows for basic manual operation of each zone.

- Press the corresponding ZONE button (ZONE 1, ZONE 2, ZONE 3) to manually turn each zone ON or OFF.

6.2 App Control (DEWENWILS APP)

The DEWENWILS app provides advanced control and scheduling features for each of the three independent zones.



Figure 4: Three independent zones for flexible control.

Within the app, you can select from 5 different timer modes for each zone:

- **Schedule:** Set specific ON/OFF times for your lights. Minimum interval is 1 minute.

- **Circulate:** Program the device to turn ON/OFF repeatedly during a set period (e.g., ON for 30 mins, OFF for 10 mins).
- **Random:** Lights turn ON/OFF randomly within a designated timeframe, creating an impression of occupancy.
- **Countdown:** Set a countdown timer for the lights to turn ON or OFF after a specified duration.
- **Manual ON/OFF:** Control the lights directly from the app.



Figure 5: Scheduling lights using the DEWENWILS app.

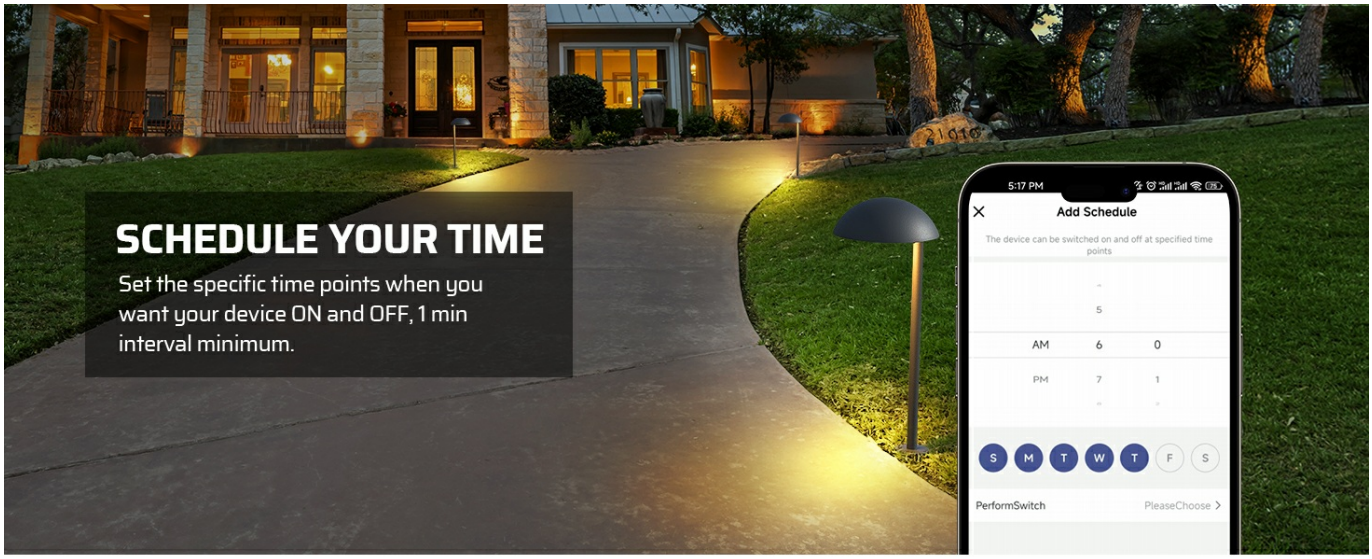


Figure 6: Circulate mode operation.

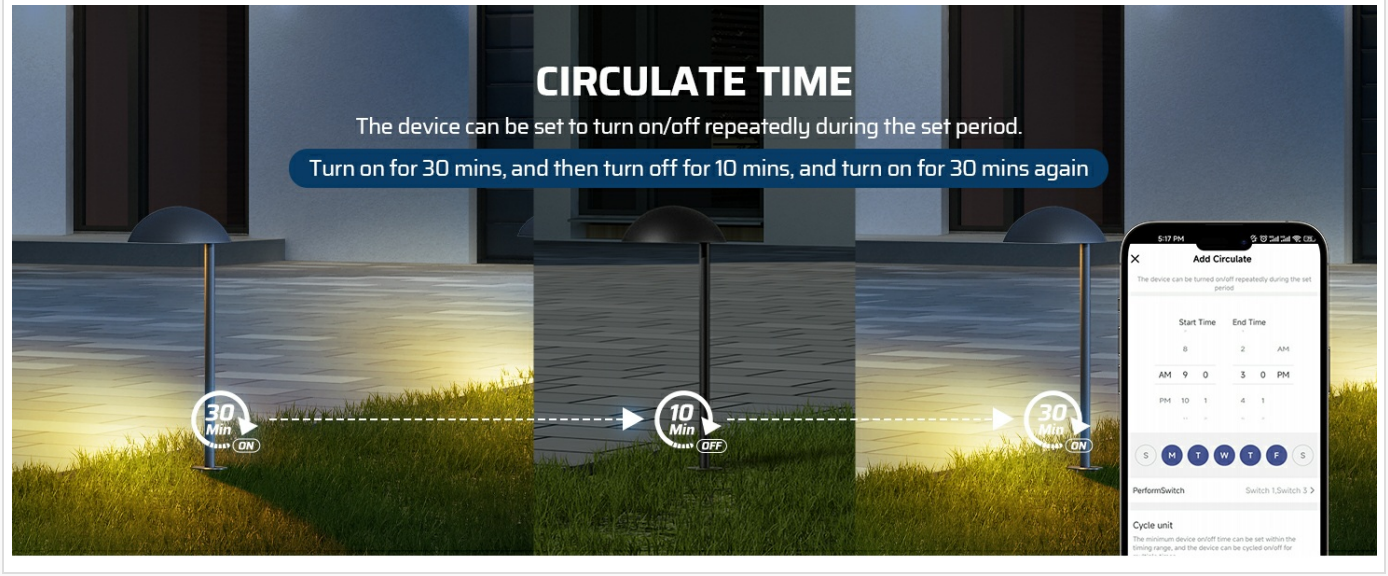


Figure 7: Random mode for security.

6.3 Voice Control

The transformer is compatible with Alexa and Google Assistant. Once paired with the DEWENWILS app, you can link it to your voice assistant accounts for hands-free control.

- Follow the instructions in your Alexa or Google Home app to enable the DEWENWILS skill/service and discover devices.
- Use voice commands such as "Alexa, turn on the landscape lights" or "Hey Google, turn off Zone 1."

7. Maintenance

The DEWENWILS 300W Wi-Fi Low Voltage Landscape Transformer is constructed with durable stainless steel for long-lasting performance in outdoor environments.



Figure 8: Totally enclosed design for all-weather durability.

- **Cleaning:** Periodically wipe the exterior with a damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the power cord and low voltage wiring for any signs of damage. Ensure all connections remain secure.
- **Weather Protection:** The stainless steel housing is weatherproof and corrosion-resistant, protecting internal

components from rain, snow, and dust.

8. Troubleshooting

- **Lights Not Turning On:**
  - Check if the transformer is plugged into a working GFCI outlet.
  - Verify that the total wattage of connected lights does not exceed 300W. An overload will trigger the protection mechanism.
  - Ensure all low voltage wires are securely connected to the terminals.
  - Check individual light bulbs or fixtures for damage.
- **Wi-Fi Connectivity Issues:**
  - Confirm your Wi-Fi network is 2.4GHz. The transformer does not support 5GHz networks.
  - Ensure the transformer is within range of your Wi-Fi router.
  - Restart your Wi-Fi router and the transformer.
  - Attempt to re-pair the device with the DEWENWILS app.
- **App or Voice Control Not Responding:**
  - Check your internet connection.
  - Ensure the DEWENWILS app is up to date.
  - Verify that the transformer is still connected to your Wi-Fi network.
  - For voice control, ensure the DEWENWILS skill/service is enabled and linked in your Alexa or Google Home app.

9. Warranty and Support

DEWENWILS products are designed for reliability and performance. For warranty information, technical support, or assistance with your product, please refer to the contact information provided on the DEWENWILS official website or your purchase documentation.
You can also visit the DEWENWILS Store on Amazon for additional resources.

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