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› DEWENWILS 600W Low Voltage Landscape Transformer User Manual

Dewenwils HSLT08E

DEWENWILS 600W Low Voltage Landscape Transformer User Manual

Brand: [Dewenwils](#) | Model: [HSLT08E](#)



Image: Front view of the DEWENWILS 600W Low Voltage Landscape Transformer, showcasing its stainless steel casing and digital display panel.

PRODUCT OVERVIEW

The DEWENWILS 600W Low Voltage Landscape Transformer is designed to power various outdoor lighting

systems, converting 120V AC input to safe 12V AC or 14V AC output. With a total capacity of 600W, this transformer features six independently controlled zones, allowing for customized lighting solutions across your landscape.

Constructed from durable 304 stainless steel, it offers enhanced resistance to water, sun, and corrosion, making it suitable for diverse outdoor environments. The unit includes a photocell sensor for automatic dusk-to-dawn operation and offers versatile operating modes including AUTO, COUNTDOWN, and MANUAL ON/OFF. Integrated 25A circuit breakers provide overcurrent and short-circuit protection, ensuring safe and reliable performance.

KEY FEATURES

600W Low Voltage Conversion

This transformer supports a 120V AC input and provides 12V AC or 14V AC output, with a maximum total capacity of 600W. The output is divided into two main sections (A1-A3 and B1-B3), each capable of handling up to 300W, accommodating a wide range of landscape lighting needs.



Image: Internal view of the transformer showing 120V input and 12V/14V output terminals, highlighting its 600W capacity for low voltage conversion.

Six Independently Controlled Zones

The transformer features six distinct output zones (A1, A2, A3, B1, B2, B3) that can be controlled independently. This allows for flexible and customized lighting configurations, enabling different sections of your landscape to operate on different schedules or modes. Each zone is protected by dedicated 25A circuit breakers for enhanced safety against overcurrent and short-circuits.

SIX ZONES WITH INDEPENDENT CONTROL



Image: Rear view of the transformer showing the six distinct output terminals (A1-A3, B1-B3) for independent zone control, with power distribution details.

Three Versatile Operating Modes

The transformer offers three primary operating modes to suit various lighting needs:

- **AUTO Mode:** Lights automatically turn on at dusk and turn off at dawn, utilizing the integrated photocell sensor.
- **COUNTDOWN Mode:** Lights turn on at dusk and automatically turn off after a user-defined duration of 1 to 12 hours.

- **MANUAL ON/OFF Mode:** Allows for manual control to turn the lights on or off at any time, bypassing automatic functions.

EASY TO OPERATE

6 ZONES
Independent Control



3 MODES



ON at dusk,
OFF at dawn



ON at dusk
OFF after 1-12h



Manual
ON/OFF



Image: Close-up of the transformer's control panel, illustrating the buttons and display for selecting between AUTO, COUNTDOWN, and MANUAL ON/OFF modes.

Photocell Sensor for Automatic Operation

An external photocell sensor is included, enabling the transformer to detect ambient light levels. This sensor facilitates the automatic activation of lights at dusk and deactivation at dawn when the transformer is set to AUTO mode, providing energy efficiency and convenience.

PHOTOCELL SENSOR

Your landscape lighting will automatically turn on at dusk and off at dawn

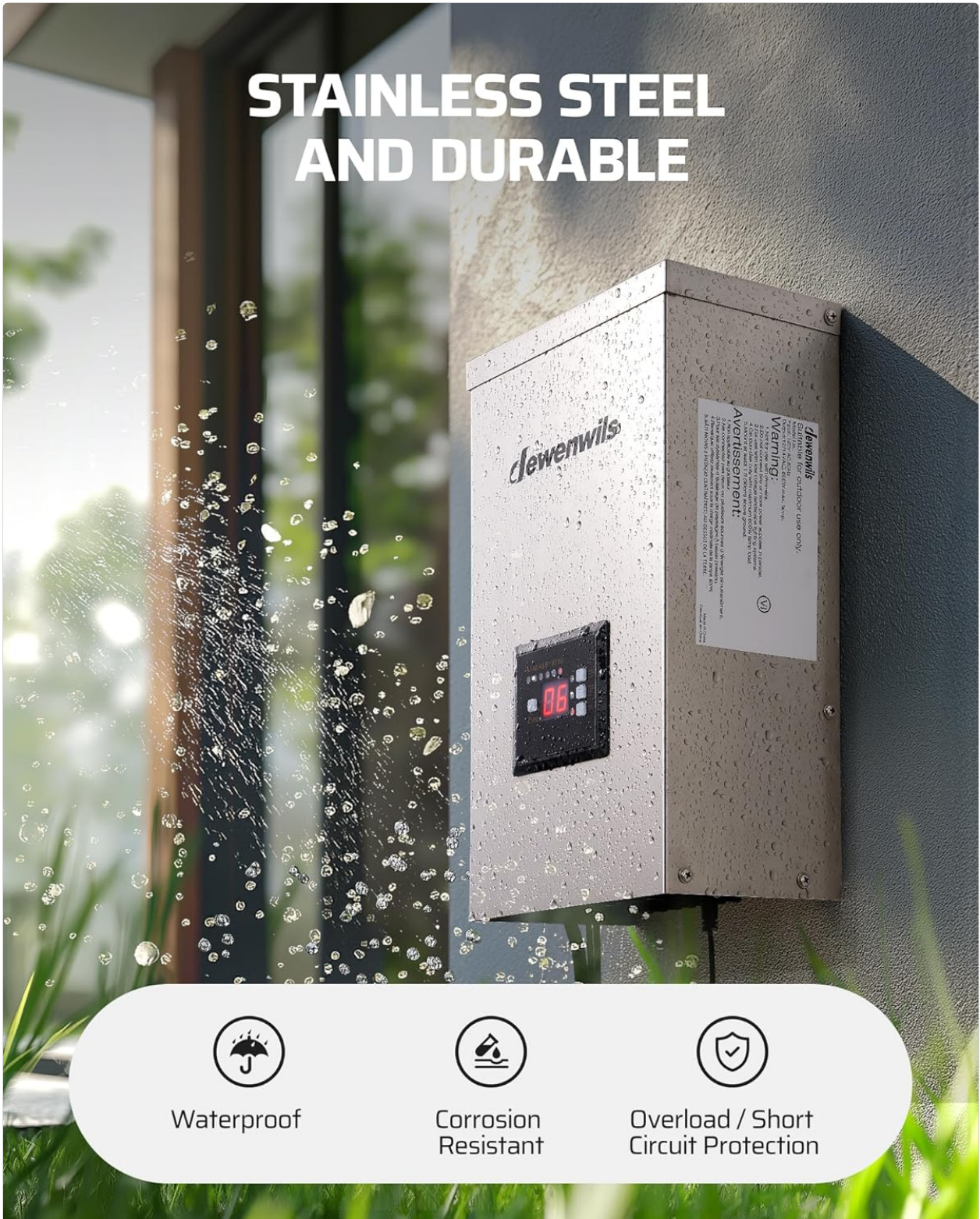


Image: Depiction of the photocell sensor and its function, showing landscape lighting turning on at dusk and off at dawn automatically.

Durable 304 Stainless Steel Construction

The transformer's casing is made from high-quality 304 stainless steel, offering superior durability and resistance to environmental factors. This material provides excellent protection against water, sun exposure, and corrosion, making the unit ideal for outdoor installation, especially in challenging climates.

STAINLESS STEEL AND DURABLE



Waterproof



Corrosion
Resistant



Overload / Short
Circuit Protection

Image: The transformer mounted outdoors, demonstrating its resistance to water splashes, emphasizing its waterproof and corrosion-resistant properties.

SETUP AND INSTALLATION

Follow these steps for proper installation of your DEWENWILS Low Voltage Landscape Transformer:

1. **Prepare the Mounting Location:** Choose a suitable outdoor location near a 120V AC power outlet. Ensure the surface is stable and can support the weight of the transformer. It is recommended to mount

the transformer vertically with the terminals facing downwards to prevent water ingress.

2. **Mount the Transformer:** Use appropriate screws and anchors (not included) to securely mount the transformer to the wall or desired surface. The unit features two mounting holes on the back for stable attachment. Ensure it is level and firmly fixed.
3. **Connect Landscape Light Wires:** Connect the low voltage wires from your landscape lights to the designated 12V AC or 14V AC output terminals on the transformer. The terminals are clearly labeled (COM, 12V, 14V) and are secured with screws. Ensure all connections are tight and secure to prevent loose contacts.
4. **Connect Photocell Sensor:** Plug the external photocell sensor into its dedicated port on the transformer. Position the sensor in a location where it can accurately detect ambient light without being obstructed or exposed to direct artificial light sources at night.
5. **Power On:** Once all connections are secure and verified, plug the transformer's 120V AC power cord into a grounded outdoor electrical outlet.

EASY TO INSTALL

1

CONNECT WIRES

Wire to connect your lights



2

HANG IT ON THE WALL

Use 2 mounting holes on the back to hang it steadily



Image: Visual guide showing the two main installation steps: connecting landscape light wires to the terminals and mounting the transformer securely on a wall.

OPERATING INSTRUCTIONS

The DEWENWILS transformer offers intuitive button controls for selecting operating modes and managing your landscape lighting.

Mode Selection:

- **AUTO Mode (Dusk to Dawn):** Press the "Mode" button until "AUTO" or the corresponding indicator is displayed. In this mode, the photocell sensor will automatically turn on your lights at dusk and turn them off at dawn.
- **COUNTDOWN Mode (Dusk On, Timed Off):** Press the "Mode" button to cycle to the COUNTDOWN setting. Use the "Timer" or "Hour" buttons to select the desired duration (1-12 hours) for the lights to remain on after dusk. The lights will turn on at dusk and automatically turn off after the set time.
- **MANUAL ON/OFF Mode:** Press the "Mode" button to select MANUAL ON/OFF. In this mode, you can manually turn the lights on or off using the dedicated ON/OFF button on the control panel. This overrides any automatic functions.

Independent Zone Control:

The digital display allows you to select and configure each of the six zones (A1, A2, A3, B1, B2, B3) independently. Use the "Zone" button to cycle through the zones and apply the desired operating mode to each specific lighting circuit.

Refer to the display and control buttons on the front panel for precise adjustments and monitoring of the transformer's status.

MAINTENANCE

The DEWENWILS Low Voltage Landscape Transformer is designed for minimal maintenance due to its robust 304 stainless steel construction. However, regular checks can ensure optimal performance and longevity.

- **Cleaning:** Periodically wipe the exterior of the transformer with a soft, damp cloth to remove dust, dirt, or debris. Avoid using abrasive cleaners or solvents that could damage the stainless steel finish.
- **Inspect Connections:** Annually, or if you notice inconsistent lighting, inspect all wire connections at the terminals to ensure they remain tight and free from corrosion. Loose connections can lead to poor performance or safety hazards.
- **Photocell Sensor:** Ensure the photocell sensor remains clean and unobstructed. Dust, dirt, or overgrown foliage can interfere with its ability to accurately detect light levels, affecting automatic operation.
- **Ventilation:** Ensure that the transformer's ventilation openings (if any) are not blocked to allow for proper heat dissipation.
- **Environmental Protection:** While the unit is weather-resistant, avoid submerging it in water or exposing it to extreme conditions beyond its intended use.

No user-serviceable parts are inside the sealed unit. Do not attempt to open or repair the transformer yourself, as this may void the warranty and pose a safety risk. For any issues requiring internal inspection or repair, contact qualified personnel or the manufacturer's support.

TROUBLESHOOTING

If you encounter issues with your DEWENWILS Low Voltage Landscape Transformer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on.	<p>No power to the transformer.</p> <p>Photocell sensor obstructed or faulty.</p> <p>Incorrect operating mode selected.</p> <p>Loose wire connections.</p> <p>Overload or short circuit (circuit breaker tripped).</p> <p>Faulty landscape lights.</p>	<p>Check the power outlet and ensure the transformer is plugged in securely.</p> <p>Clean the photocell sensor and ensure it's not blocked. Test in MANUAL ON/OFF mode.</p> <p>Verify the transformer is set to AUTO, COUNTDOWN, or MANUAL ON.</p> <p>Inspect and tighten all wire connections at the terminals.</p> <p>Reset the circuit breakers. Reduce load if continuously tripping.</p> <p>Test lights individually or replace if necessary.</p>
Lights flicker or are dim.	<p>Voltage drop due to long wire runs or insufficient wire gauge.</p> <p>Overloaded circuit.</p> <p>Loose connections.</p>	<p>Use thicker gauge wire for longer runs. Consider using the 14V output if available.</p> <p>Reduce the total wattage of connected lights.</p> <p>Check and tighten all wire connections.</p>
Lights stay on constantly.	<p>Photocell sensor exposed to artificial light at night.</p> <p>Incorrect mode selected (e.g., stuck in MANUAL ON).</p>	<p>Relocate the photocell sensor away from other light sources.</p> <p>Verify the operating mode is set to AUTO or COUNTDOWN.</p>

If the problem persists after attempting these solutions, please contact DEWENWILS customer support for further assistance.

SPECIFICATIONS

Specification	Detail
Brand	Dewenwils
Model Number	HSLT08E
Input Voltage	120V AC
Output Voltage	12V AC / 14V AC
Total Capacity	600W (A1-A3 max 300W, B1-B3 max 300W)
Output Zones	6 Independently Controlled Zones (A1, A2, A3, B1, B2, B3)
Circuit Breakers	Two 25A circuit breakers
Operating Modes	AUTO (Dusk to Dawn), COUNTDOWN (1-12 hours), MANUAL ON/OFF

Specification	Detail
Material	304 Stainless Steel
Protection Features	Overcurrent Protection, Short-circuit Protection
Mounting Type	Wall Mount
Current Rating	25 Amps
Frequency	60 Hz
Certifications	ETL, NEMA, UL
Parcel Dimensions	42.9 x 26.6 x 20.1 cm
Weight	8.53 kg
Country of Origin	China

WARRANTY AND SUPPORT

For information regarding the warranty period and terms for your DEWENWILS 600W Low Voltage Landscape Transformer, please refer to the product packaging or contact DEWENWILS customer support directly. Warranty details may vary based on region and purchase date.

If you require technical assistance, have questions about installation, operation, or need to report a defect, please reach out to the manufacturer's customer service. Contact information can typically be found on the DEWENWILS official website or through your point of purchase.

Always provide your product model number (HSLT08E) and purchase details when contacting support to ensure efficient service.