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› HIBOITEC 200W Low Voltage Landscape Transformer (Model BYQ-200W) Instruction Manual

HIBOITEC BYQ-200W

HIBOITEC 200W Low Voltage Landscape Transformer (Model BYQ-200W) Instruction Manual

Outdoor Lighting Transformer with Photocell Sensor and Timer

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your HIBOITEC 200W Low Voltage Landscape Transformer. This device converts 120V AC household current to a safe 12V or 15V AC for landscape lighting applications. It features a built-in photocell sensor and timer for automated control of your outdoor lights.

Your Yard Knows When to Glow

It lights up as you pull in.
Turns off long after you sleep.



Image: The HIBOITEC 200W Low Voltage Landscape Transformer is shown installed on a wall, with its digital display visible. The surrounding landscape, including a pathway and house, is illuminated by low-voltage lights, demonstrating the product's function at dusk.

2. SAFETY INFORMATION

- **Optimal Load:** Do not exceed 80% of the transformer's maximum power rating (160W for this 200W model) to ensure longevity and safe operation.
- **Circuit Protection:** The transformer includes a built-in circuit protector to prevent electrical hazards.
- **FCC Approved:** This device is FCC approved, indicating compliance with electromagnetic interference standards.
- **UL Certified Cord:** The included 6-foot power cord is UL certified for safety.
- **Grounding:** Ensure the transformer is connected to a properly grounded 3-prong outlet.
- **Weather Resistance:** The stainless steel 304 housing is designed to withstand various weather conditions. However, ensure all connections are secure and waterproof.

Outdoor-Grade Safety. Inside and Out.

Certified components, grounded plug, and built-in circuit protection — engineered to handle real weather.



120V AC
HOUSEHOLD POWER



12V / 15V AC OUTPUT
SAFE FOR LANDSCAPE LIGHTING



OVERLOAD PROTECTION

Auto cut-off if wattage exceeds rated load



SHORT-CIRCUIT PROTECTION

Instant disconnect to protect your lights



RESETTABLE BREAKER

Press reset, you're back on

Certification documents available upon request.

Image: A detailed view of the transformer highlights its safety features. Labels indicate ETL Listed, UL-Certified Cord, FCC Part 15 compliance, and a 3-prong grounded plug. The output terminals are marked for 12V/15V AC. Below, icons represent Overload Protection, Short-Circuit Protection, and a Resettable Breaker, each with a brief description.

3. SPECIFICATIONS

Feature	Detail
Model Number	BYQ-200W
Wattage	200.0 Watts
Input Voltage	120V AC
Output Voltage	12V AC / 15V AC
Material	Stainless Steel 304

Mounting Type	Wall Mount
Product Dimensions	19.2D x 28W x 14.7H centimetres
Item Weight	3.1 kg
Certifications	FCC, ETL, UL

The transformer is designed for outdoor use and is resistant to corrosion and harsh weather conditions.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your landscape transformer:

- Determine Wattage Needs:** Calculate the total wattage of all your landscape lights. Multiply this total by 1.25 for a safe minimum transformer size. Ensure the total wattage does not exceed 80% of the transformer's capacity (160W for this 200W model).
- Mount the Transformer:** Use the provided hanging holes and screws to securely mount the transformer on a wall or suitable outdoor surface. Ensure it is in a location that allows for proper ventilation and access to a 120V AC grounded outlet.
- Wire Connections:** Connect your low-voltage landscape lighting fixtures to the transformer's output terminals. The transformer features two output ports, allowing for connection of various landscape lights. Ensure positive and negative terminals are correctly matched.
- Voltage Selection:** The transformer offers 12V AC and 15V AC output options. For shorter cable runs (up to 50 ft), use the 12V output. For longer runs (up to 150 ft) or to compensate for voltage drop over distance, use the 15V output to ensure consistent brightness for all lights.
- Power Connection:** Plug the transformer's 6-foot UL certified cord into a standard 120V AC grounded outdoor outlet.

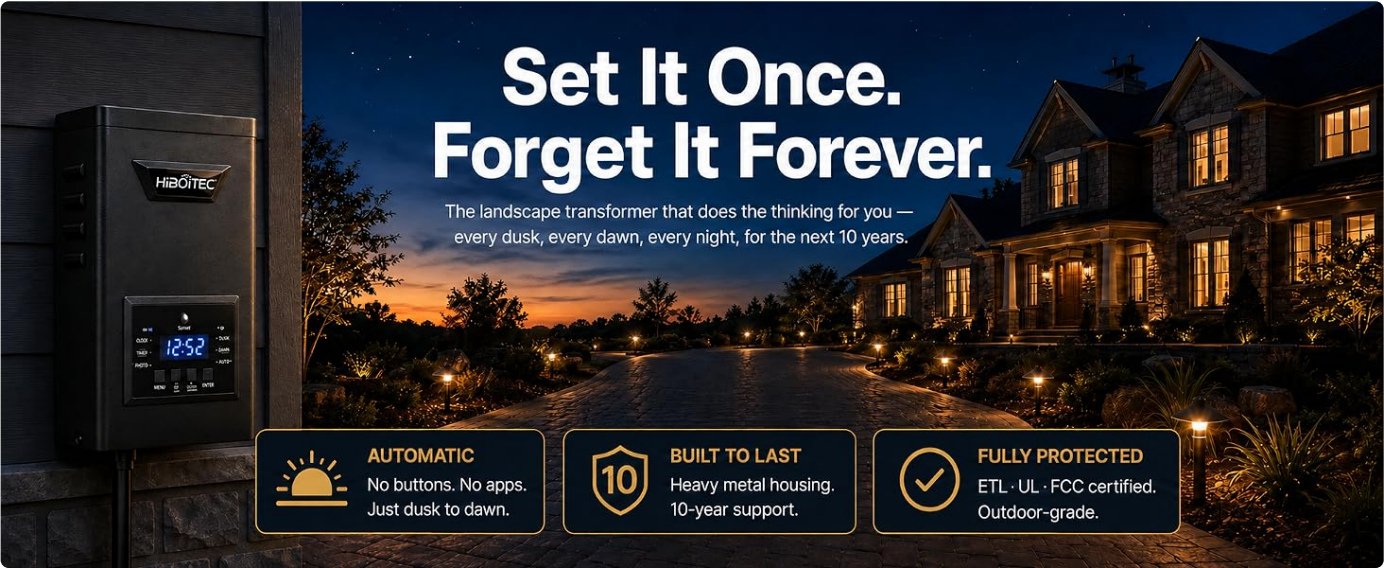


Image: A visual guide to the installation process. Step 1 shows wiring connections to the transformer's terminals. Step 2 illustrates mounting the transformer to a wall using a template. Step 3 depicts plugging the transformer into an electrical outlet, with a final image of an illuminated landscape.

One Box. Front Yard & Back.

Long wires lose voltage. Pick **12V** for runs under **50 ft**, **15V** for runs up to **150 ft** — every lamp stays bright.



12V

UP TO 50 FT

For short runs near the transformer

15V

UP TO 150 FT

For long runs to keep the last lamp bright

TWO TAPS
NO GUESSWORK

MEASURE YOUR RUN.
PICK THE RIGHT TAP.

Image: This diagram shows the transformer with two distinct output sections: 12V and 15V. It explains that the 12V output is suitable for shorter cable runs (up to 50 feet), while the 15V output is recommended for longer runs (up to 150 feet) to prevent voltage drop and ensure consistent light brightness across the entire system.

Which Wattage Fits Your Yard?

Pick the size that matches your lights.

★ MOST POPULAR



200W

up to 16 lamps
Small yards



300W

up to 24 lamps
Medium yards



400W

up to 32 lamps
Large yards



500W

up to 40 lamps
XL yards



600W

up to 48 lamps
Pro / multi-zone



Sizing Rule

Total Lamp Watts × 1.25 = Recommended

Example: 20 lamps × 10W = 200W → choose 300W

Every size includes:



5 Control Modes

AUTO • TIMER • MANUAL
AUTO+TIMER • TEST



12V & 15V Dual Taps

For runs up to 150 ft



10-Year Replacement

Lifetime customer support

Image: A guide titled 'Which Wattage Fits Your Yard?' demonstrates a three-step process for calculating the appropriate transformer wattage. It involves counting the number of lamps and their individual wattages, summing them, and then multiplying the total by 1.25 to determine the minimum required transformer size. An example calculation is provided.

5. OPERATING INSTRUCTIONS

The transformer offers multiple operating modes for flexible control of your landscape lighting:

- **PHOTOCELL ON/OFF (AUTO Mode):** The built-in photocell sensor automatically turns lights on at dusk and off at dawn. This mode requires no manual adjustment once set.
- **PHOTOCELL ON/TIMER OFF (AUTO+TIMER Mode):** Lights turn on at dusk via the photocell and automatically turn off after a user-defined duration (1-9 hours). This mode helps conserve energy.
- **TIMER ON/OFF:** Allows you to set specific ON and OFF times for your lights, independent of ambient light conditions.
- **MANUAL ON/OFF:** Provides direct control to turn lights on or off at any time, overriding programmed settings.
- **TEST Mode:** Activates all lights during daylight hours to verify connections and system functionality.

The transformer includes a memory function that retains your chosen settings even after a power outage, eliminating the need for reprogramming.

Set It Once. Forget It Forever.

Built-in sensor turns lights on at dusk, off at dawn — every single night.



6:42 PM

DUSK

lights automatically ON



6:18 AM

DAWN

lights automatically OFF



Image: The top image displays a house and its illuminated pathway at 6:42 PM (dusk), with lights automatically turned ON. The bottom image shows the same scene at 6:18 AM (dawn), with lights automatically turned OFF, demonstrating the transformer's photocell sensor functionality.

5 Ways to Light Your Home

Auto by default. Timer to save. Manual when you take over.

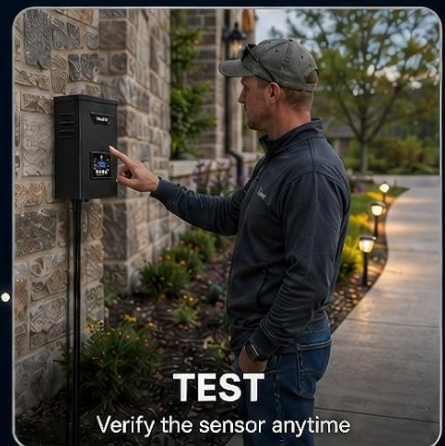
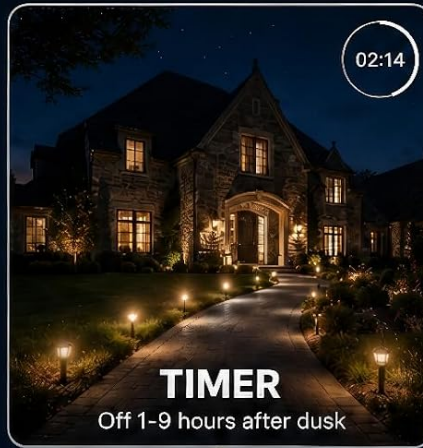
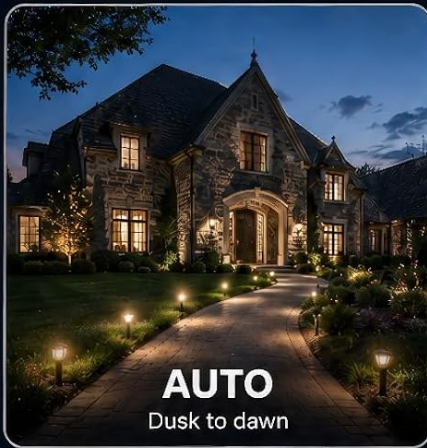


Image: This graphic illustrates '5 Ways to Light Your Home' using the transformer. It details five control modes: AUTO (dusk to dawn), TIMER (off 1-9 hours after dusk), MANUAL (override anytime), AUTO + TIMER (smart combo for savings), and TEST (verify sensor anytime). The transformer unit is centrally depicted with arrows pointing to each mode's description.

6. MAINTENANCE

The HIBOITEC landscape transformer is designed for durability and minimal maintenance. To ensure optimal performance and longevity:

- **Regular Inspection:** Periodically check all wiring connections for tightness and signs of wear or damage.
- **Cleanliness:** Keep the transformer's exterior clean and free from debris, especially around the photocell sensor, to ensure accurate dusk/dawn detection.
- **Environmental Protection:** While waterproof, avoid submerging the unit. Ensure it is mounted in a location where it is not directly exposed to standing water.

Tank-Tough. Year After Year.

Heavy metal housing built to handle
snow, rain, sun, and ice.



-4°F to 110°F
WORKING RANGE

 **HEAVY METAL HOUSING, NOT PLASTIC.**

Image: A collage of four images demonstrates the transformer's resilience in extreme weather: snow, rain, sun (110°F Florida sun), and ice (-4°F Ohio winter). The text emphasizes its 'Tank-Tough' heavy metal housing, designed to withstand temperatures from -4°F to 110°F, confirming its durability for year-round outdoor use.

7. TROUBLESHOOTING

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

- **Lights Not Turning On:**

- Check the power connection to the outlet.
- Ensure the photocell sensor is not obstructed if using AUTO mode.
- Verify the selected operating mode and timer settings.
- Press the resettable breaker button if the unit has tripped due to an overload or short circuit.

- **Lights Flickering or Dim:**

- Confirm that the total wattage of connected lights does not exceed 80% of the transformer's capacity.
 - For long cable runs, ensure you are using the 15V AC output to compensate for voltage drop.
 - Check for loose or corroded wire connections.
- **Overload Protection:** If the total wattage of connected lights exceeds the transformer's rated load, the unit will automatically shut off. Disconnect some lights and press the resettable breaker to resume operation.
 - **Short-Circuit Protection:** In case of a short circuit in your lighting system, the transformer will instantly disconnect power to prevent damage. Identify and fix the short circuit, then press the resettable breaker.



Image: This graphic details the transformer's protective features. It shows an internal circuit board for overload protection, a protection relay for short-circuit protection, and a waterproof resettable breaker button. Each feature is described as working quietly to prevent issues without user intervention.

8. WARRANTY AND SUPPORT

Your HIBOITEC 200W Low Voltage Landscape Transformer comes with a **12-month replacement warranty**. Additionally, HIBOITEC provides **lifetime after-sale support** for this product. For any inquiries, technical assistance, or warranty claims, please contact HIBOITEC customer service.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question