

Hinkley 0150BK

Hinkley Landscape 0150BK Standard Transformer Instruction Manual

Model: 0150BK

INTRODUCTION

The Hinkley Landscape 0150BK Standard Transformer is designed to convert 120V line voltage to a safer, energy-efficient 12V low voltage for outdoor landscape lighting systems. This manual provides essential information for the proper installation, operation, and maintenance of your transformer.

Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Please check your local laws before purchasing this product.

PRODUCT FEATURES

- **Power Surge Protection:** Converts 120V line voltage to 12V low-voltage, suitable for outdoor lighting.
- **Automated Timer:** Includes an automated timer that activates at dusk and can be set for 4-hour, 6-hour, or 8-hour periods.
- **Photocell Sensor:** Automatically turns lights on at dusk and off at dawn.
- **On/Off Switch:** Manual control option.
- **No Dimming:** Cannot be used with a dimmer switch or the Hinkley Smart Landscape Wireless Control + Dimmer.
- **Safety Ratings:** Suitable for damp locations, defined by NEC and CEC; Meets UL & CSA Product Safety Standards.
- **Material:** Durable Composite Resin construction.

TRANSFORMER FEATURES

- 12V TAP
- AUTOMATIC TIMER
- PHOTOCELL SENSOR
- BUILT-IN CIRCUIT BREAKER

Image: Graphic detailing the key features of the Hinkley transformer, including 12V tap, automatic timer, photocell sensor, and built-in circuit breaker.

PLANNING YOUR LANDSCAPE LIGHTING SYSTEM

Proper planning is crucial for an effective and safe landscape lighting system. Consider the following:

- **Safety and Operation:** 12V systems are safe to use, and fixtures are rated for wet locations.
- **Easy Installation:** Wires can typically be buried about 6 inches deep, simplifying installation.
- **Flexible Fixture Placement:** Fixture locations are adaptable and can be easily moved as your landscape matures or if you wish to add more pieces.
- **Energy Efficiency:** LED landscape lighting is energy-efficient and economical to operate, providing excellent light output for minimal wattage.

Creating a Sketch

Before beginning installation, sketch out the areas that will benefit from landscape lighting. Pay special attention to safety, security, and focal points on your property. This will help define the scope of your project and ensure a distinctive look.

Selecting the Right Transformer

The transformer is the heart of your system. It converts 120V household current to a safe 12V. Most residential projects can be accommodated by a 150W transformer. Always size up your transformer if you anticipate using over 75% of its capacity to allow for future additions.

SELECTING A TRANSFORMER

INCANDESCENT (KRYPTON, HALOGEN)

$$\left(\text{Number of Fixtures} \times \text{Fixture Wattage} \right) + 20\%$$

= **Minimum Wattage
Transformer Requirement**

LED

$$\left(\text{Number of Fixtures} \times \text{Fixture VA} \right) + 20\%$$

= **Minimum VA
Transformer Requirement**

SELECT PROPER TRANSFORMER FROM ABOVE CALCULATION

Image: Graphic providing formulas for calculating minimum wattage or VA transformer requirements for incandescent and LED fixtures.

INSTALLATION INSTRUCTIONS

This section outlines the steps for installing your Hinkley Landscape Transformer and lighting system.

Your browser does not support the video tag.

Video: Detailed guide on installing a low voltage landscape lighting system, covering basics, planning, transformers, and wiring.

1. Running Wire Cable

- Run your wire cable from the transformer to all lighting fixture locations. You may have multiple runs or trunk lines depending on your layout.
- Wait to bury your cable until the very end of the installation process.
- While lighter gauge wire can be used for LED lighting, a minimum of 12 gauge is recommended to ensure minimal voltage drop and extra durability.

2. Connecting Fixtures to Cable

- Once your cable is run to the fixture locations, connect each fixture to the 12-gauge cable.
- Ensure you leave plenty of excess cable to allow for repositioning of fixtures at night and to accommodate future growth of plants and trees.
- Make a strong, watertight connection. Cut your line, strip approximately 3/4 inch of insulation from the cable wire, then twist it together tightly with a gel-filled wire connector. Wrap the connection with electrical tape.

3. Connecting Main Cable Run to Transformer

- Run your cables exiting the transformer through conduit, approximately 6 inches into the ground, for a neat and professional installation.
- The transformer has large wire taps to accommodate multiple 12-gauge wires.
- Connect your main cable run into the transformer. This is a simple two-wire system; it does not matter which wire strand goes into the common and which into the voltage tap.
- Strip the wire back about 3/4 inch and place one side into the common tap and the other side into the 12V tap. Use a flathead screwdriver to tighten each tap down.
- If you have a longer run (over approximately 100 feet), use the 15V tap to ensure the correct voltage to the fixtures.
- For multiple runs, place one strand from each run into the common tap and the other wire strand into the corresponding voltage tap, depending on the length of the run.
- Always identify each cable entering the wiring cavity. Colored electrical tape works well to mark each individual wire and identify the cable run on the inside of the transformer door.

4. Mounting the Transformer

- Once the main cable run is securely attached to the transformer, you can mount your transformer to a structure or use a secured post.
- The bottom of the transformer must be mounted at least 12 inches above grade and at least 10 feet from any open water.
- A post is usually the preferred method, as it allows you to position the transformer out of the line of sight. Use discretion when mounting on a front or back porch, as most homeowners prefer the transformer not to be in plain view.

5. Power Source

- After the transformer is secured, it must be plugged into a 120V power source that is a GFCI (Ground Fault Circuit Interrupter) protected outlet. This is in accordance with the National Electrical Code.
- If you do not have a GFCI outlet, contact a qualified electrician to have one installed.

6. Burying the Cable

- After all adjustments are made and you are satisfied with the fixture placement, you can bury the cable.
- Use a flat spade to slice through the landscape and bury the cable wire at least 6 inches into the soil.
- For landscape beds and sidewalks that are edged, you may want to bury your cable deeper than 6 inches to avoid damage from edging and tilling.



Image: The Hinkley Landscape 0150BK Standard Transformer installed on the exterior siding of a building.

OPERATION

The Hinkley 0150BK transformer offers flexible control options for your landscape lighting:

- **Automatic Timer:** The built-in timer, combined with the photocell, allows lights to turn on at dusk and remain on for 4, 6, or 8 hours.
- **Photocell:** The photocell sensor detects ambient light levels, automatically activating the system at dusk.
- **On/Off Switch:** A manual switch provides immediate control over your lighting system.
- **Dimming:** This transformer is not compatible with dimmer switches or the Hinkley Smart Landscape Wireless Control + Dimmer.



Image: Front view of the Hinkley Landscape 0150BK Standard Transformer, highlighting the control panel with timer

and photocell settings.

MAINTENANCE

To ensure the longevity and optimal performance of your Hinkley Landscape Transformer, consider the following maintenance tips:

- **Regular Cleaning:** Periodically wipe down the exterior of the transformer with a soft, damp cloth to remove dirt and debris. Ensure the unit is unplugged before cleaning.
- **Inspect Connections:** Annually inspect all wire connections for tightness and signs of corrosion. Re-tighten or clean as necessary.
- **Check for Damage:** Regularly check the transformer casing and power cord for any physical damage. If damage is found, discontinue use and contact customer support.
- **Clear Obstructions:** Ensure the photocell sensor is clear of any obstructions (leaves, dirt) that might interfere with its operation.
- **Seasonal Adjustments:** Adjust timer settings as needed with seasonal changes to optimize lighting schedules.

TROUBLESHOOTING

If you encounter issues with your Hinkley Landscape Transformer, refer to the following common troubleshooting steps:

- **Lights Not Turning On:**
 - Check if the transformer is plugged into a working GFCI outlet.
 - Verify timer settings are correct and the photocell is not obstructed.
 - Inspect all wire connections for looseness or corrosion.
 - Ensure the total wattage of connected fixtures does not exceed the transformer's 150W capacity.
- **Lights Flickering or Dim:**
 - This may indicate voltage drop. Ensure you are using at least 12-gauge wire, especially for longer runs.
 - Check if the 15V tap is used for longer runs (over 100 feet) to compensate for voltage drop.
 - Verify all connections are secure and free of corrosion.
- **Transformer Not Responding:**
 - Check the GFCI outlet by pressing the 'Reset' button.
 - Ensure the power cord is not damaged.

If these steps do not resolve the issue, please contact Hinkley customer support for further assistance.

SPECIFICATIONS

Specification	Value
Brand	Hinkley
Model Number	0150BK
Item Weight	5 Pounds
Product Dimensions	4"D x 6.75"W x 4"H
Wattage	150 watts
Voltage	12 Volts
Taps	(1) 12v
Material	Composite Resin
Color	Black
Style	Standard
Finish	Black
Safety Rating	C-US Damp Rated (UL & CSA Product Safety Standards)
Power Source	AC Mains
Plug Format	A - US style
UPC	784497842403, 640665015003



Image: Diagram illustrating the physical dimensions of the Hinkley 0150BK transformer.

WARRANTY

The Hinkley Landscape 0150BK Standard Transformer comes with a 5-year limited warranty. For detailed terms and conditions, please refer to the warranty documentation included with your product or contact Hinkley customer support.

SUPPORT

For further assistance, technical support, or to learn more about Hinkley products, please visit the official Hinkley website or contact their customer service department.

Online Resources: www.hinkleylighting.com

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Related Documents - 0150BK

	<p>HINKLEY 1500SMT Transformer Mounting Instructions</p> <p>Detailed mounting and installation instructions for the HINKLEY 1500SMT transformer, including a diagram and step-by-step guide.</p>
	<p>Hinkley 44\" CHISEL™ Indoor/Outdoor Ceiling Fan Instruction Manual</p> <p>Comprehensive guide for installing and operating the Hinkley 44\" CHISEL™ DC motor ceiling fan. Includes safety, troubleshooting, and specifications.</p>
	<p>Hinkley 15030 Freeport Family Luminaire Installation Instructions</p> <p>Detailed installation guide for the Hinkley 15030 Freeport Family luminaire. Learn how to safely mount and wire your low-voltage outdoor light fixture with these step-by-step instructions.</p>
	<p>Hinkley Landscape Lighting Catalog 2015: Outdoor Lighting Fixtures & Design Guide</p> <p>Explore the Hinkley Lighting 2015 Landscape Catalog, featuring a comprehensive guide to outdoor lighting fixtures, design techniques, and installation tips. Discover bollards, path lights, step lights, and more for residential and commercial applications.</p>
	<p>Hinkley Atlantis 1518CD-LL Installation Instructions</p> <p>Detailed installation guide for the Hinkley Atlantis 1518CD-LL LED Path Light, covering glass and bulb installation, luminaire mounting, and cedar maintenance.</p>
	<p>Hinkley Chet 48\" Indoor/Outdoor LED Ceiling Fan Installation Manual</p> <p>Comprehensive installation and operation guide for the Hinkley Chet 48-inch indoor/outdoor LED ceiling fan. Includes safety precautions, wiring diagrams, troubleshooting, and energy information.</p>

