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> [Kichler Standard Series 60W Transformer \(Model 15E60BK\) Instruction Manual](#)

## Kichler 15E60BK

# Kichler Standard Series 60W Transformer (Model 15E60BK)

Instruction Manual

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## PRODUCT OVERVIEW

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The Kichler 15E60BK Economy Series 60-Watt Transformer is designed for low voltage 12V lighting systems. It features a durable black polymeric enclosure that resists corrosion, making it suitable for various applications. This transformer includes easy-connect terminal blocks, an on/off/auto switch, and an on/off switch for versatile control. It also incorporates auto-resettable in-line primary overload protection, a thermal cut-off on the primary side, and a thermal reset breaker on the secondary side for enhanced safety and reliability.

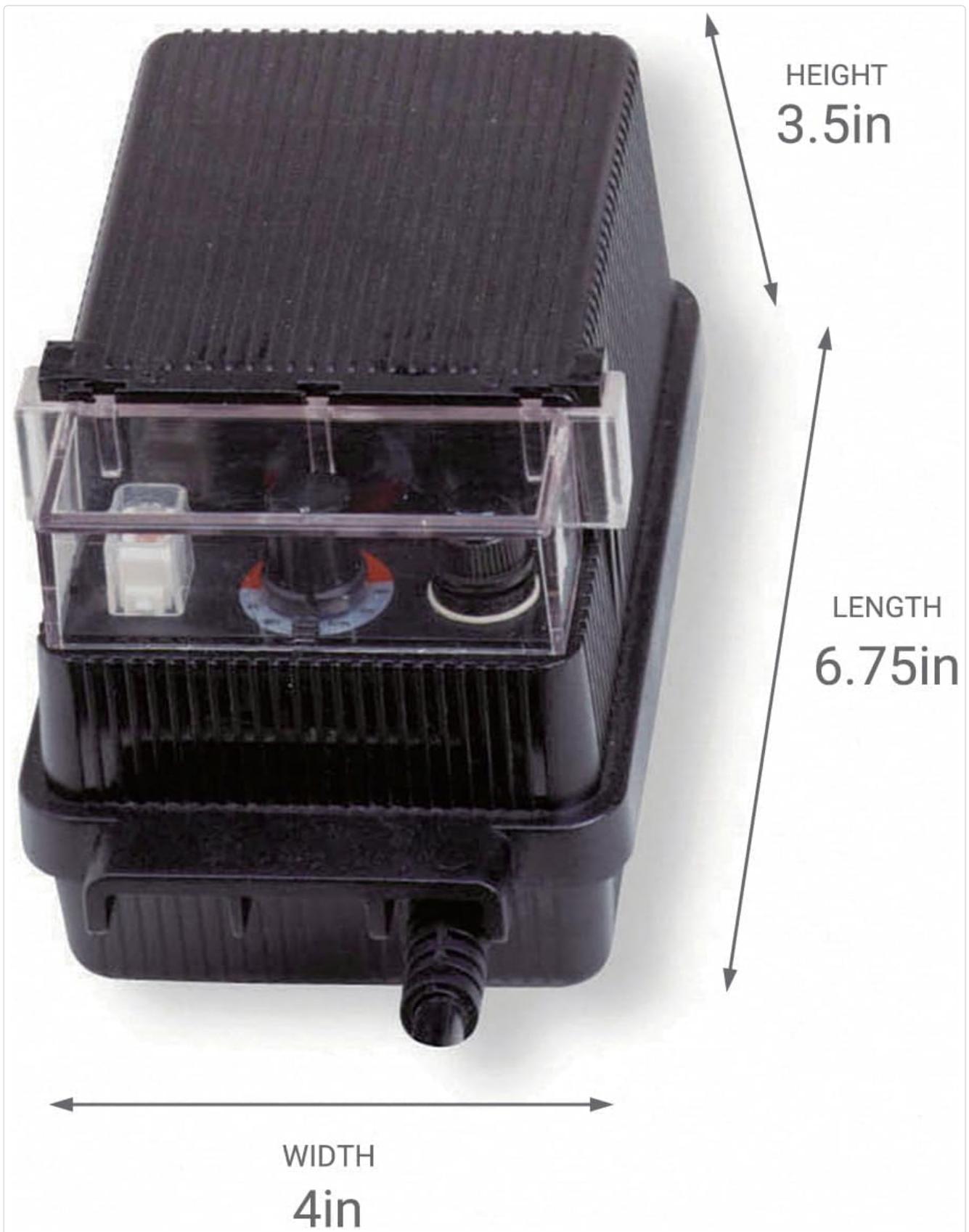
Key features include:

- EL core and coil configuration
- Integral timer and photocell for automated operation
- Black material finish (not painted)
- Constructed of steel for durability
- Includes a three-foot, 3-wire 12-3 SJTW cord

## SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance and safety. This transformer is designed for ceiling mount applications and uses a plug-in format. Consider the total wattage required and the length of wire runs when planning your lighting layout. Voltage drop can reduce lamp brightness over longer distances, so keeping wire runs as short as possible is recommended.



**Figure 1:** Kichler 60W Transformer mounted on an exterior wall, demonstrating a typical installation scenario. Ensure the unit is securely fastened and protected from direct weather exposure.

### Calculating Voltage Drop

To minimize voltage drop and maximize light output, use the following equation:

$$A \text{ (length of wire)} \times B \text{ (total watts for all lamps on that wire run)} = C \text{ (cable constant)}$$

Cable constants for common wire gauges:

- **10 gauge:** 11920
- **12 gauge:** 7500 (maximum 250 watts or 200 feet)
- **14 gauge:** 3500 (maximum 200 watts or 150 feet)
- **16 gauge:** 2200 (maximum 150 watts or 100 feet)
- **18 gauge:** 1380

Ensure all connections are secure and follow local electrical codes.

## OPERATING INSTRUCTIONS

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The transformer features an integral timer and photocell for automated control of your lighting system. The control panel allows you to select between different operating modes.



**Figure 2:** Front view of the Kichler 60W Transformer, highlighting the control panel with the on/off/auto switch, timer dial, and photocell. The clear cover protects the controls from environmental elements.

## Control Settings:

- **ON:** Provides continuous power to the lighting system.
- **OFF:** Disables power to the lighting system.
- **AUTO:** Activates the photocell and timer functions. The photocell detects ambient light, turning the lights on at dusk. The timer then controls how long the lights remain on (e.g., 2 hours, 4 hours, 6 hours, or until dawn). Adjust the timer dial to your desired duration.

Ensure the clear protective cover is closed after adjusting settings to protect the controls from moisture and debris.

## MAINTENANCE

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The Kichler 60W Transformer is designed for minimal maintenance. Its epoxy encapsulation provides enhanced protection and performance. The unit includes secondary protection and auto-reset circuit breakers, which contribute to its long-term reliability.

- Periodically inspect the transformer and wiring for any visible damage or wear.
- Keep the photocell clear of obstructions to ensure accurate dusk-to-dawn operation.
- Clean the exterior with a soft, damp cloth as needed. Do not use abrasive cleaners or solvents.

## TROUBLESHOOTING

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If your lighting system is not functioning as expected, consider the following:

- **No Power:** Check the main power supply to the transformer. The unit has an auto-resettable in-line primary overload protection and a thermal cut-off on the primary side. If an overload occurs, the unit may temporarily shut down and reset automatically once the issue is resolved.
- **Lights Not Turning On/Off:** Verify the on/off/auto switch setting. In AUTO mode, ensure the photocell is not obstructed and is receiving adequate ambient light.
- **Dim Lights:** This can be caused by voltage drop, especially with long wire runs or too many fixtures on a single run. Refer to the "Calculating Voltage Drop" section under Setup and Installation to ensure your wiring is appropriate for your system's load and length.
- **Intermittent Operation:** The transformer includes a thermal reset breaker on the secondary side. If the unit overheats due to excessive load or environmental factors, it may cycle on and off. Reduce the load or ensure adequate ventilation.

If issues persist after checking these points, consult a qualified electrician.

## SPECIFICATIONS

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Feature	Detail
Model Number	15E60BK
Power Output	60 Watts
Voltage	12 Volts

Feature	Detail
Current Rating	6 Amps
Material	Steel
Color	Black Material (Not Painted)
Product Dimensions (L x W x H)	6.75 x 4 x 3.5 inches
Item Weight	3.11 pounds
Mounting Type	Ceiling Mount
Plug Format	Plug In Transformer
Power Source	Corded Electric
UPC	783927142656



**Figure 3:** Kichler 60W Transformer with labeled dimensions: Length 6.75in, Width 4in, Height 3.5in. This image provides a visual reference for the physical size of the unit.

## WARRANTY INFORMATION

Kichler warrants that the products it provides will be free from defects in material and workmanship for 1 (one) year following the date of shipment from Seller. Specific exceptions apply:

- Landscape products (excluding specific items) are warranted for five years.
- Black and/or Textured Architectural Bronze finish transformers are warranted for 10 years.
- Stainless steel transformers and the exterior finish on LifeBrite outdoor lanterns are warranted for normal use for as long as the original purchaser owns the Product.
- Design Pro Series LED Cabinet Light models (12301BRZ, 12301NI, 12301WH, 12303BRZ, 12303NI, 12303WH, 12305BRZ, 12305NI, and 12305WH) are warranted for normal use for as long as the original purchaser owns the

Product.

- Ceiling Fan Motors are warranted for as long as the original purchaser owns the Product.
- Energy Star Products are warranted for two years.
- There are no warranties on light bulbs or the finish on outdoor polished brass Products.

"Normal use" is defined as residential non-commercial use for no more than 6 hours per day in an environment not exceeding 25 degrees Celsius (approximately 77 degrees Fahrenheit). If a warranted product is found defective, Kichler will, at its sole option and cost, replace, repair, or refund the product, less an amount attributable to prior use. This warranty is not transferable. It does not cover labor or other costs for removal or installation of defective, repaired, or replaced products.

## CUSTOMER SUPPORT

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For further assistance, technical questions, or warranty claims regarding your Kichler Standard Series 60W Transformer (Model 15E60BK), please contact Kichler customer support. When contacting support, please have your model number (15E60BK) and purchase information readily available.

You can find more information and contact details on the official Kichler website: [www.kichler.com](http://www.kichler.com)

