

TORCHSTAR JXLDL6D-6P12W30

TORCHSTAR 6 Inch Slim LED Recessed Lighting with Junction Box

Model: JXLDL6D-6P12W30 - 3000K Warm White

1. PRODUCT OVERVIEW

The TORCHSTAR 6 Inch Slim LED Recessed Lighting is designed for efficient and versatile illumination. This ultra-thin LED downlight features a compact design, making it suitable for ceilings with limited clearance. It includes an integrated junction box for simplified installation.

- **Efficient Lighting:** This Energy Star listed LED recessed light consumes 12W to deliver 1100 lumens of brightness.
- **Ultra-Thin Design:** Requires only 2 inches of clearance, ideal for ceilings where standard housing cans cannot fit.
- **Certified Quality:** ETL certified, ensuring high quality and safe operation. Constructed from corrosion and rust-resistant aluminum. IC rated for direct contact with ceiling insulation.
- **CRI90 & Dimmable:** Provides a dimming range from 5% to 100% and a high Color Rendering Index (CRI90) for accurate and vibrant color representation.
- **Easy Installation:** Comes with a junction box for direct ceiling installation, eliminating the need for a separate housing can.



Image: Overview of the TORCHSTAR 6 Inch Slim LED Recessed Lighting, showing the light fixture, junction box, and product packaging.

2. SAFETY INFORMATION

Please read and understand all instructions before beginning installation. Failure to follow these instructions may result in electric shock, fire, or other hazards that could cause personal injury or property damage.

- **WARNING: RISK OF ELECTRIC SHOCK.** Disconnect power at the fuse or circuit breaker before installing or servicing.
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- Ensure all electrical connections are made correctly and securely.
- Do not alter or modify the product.
- Suitable for damp locations.
- IC rated for direct contact with insulation.
- Operating voltage: 100-130V AC.

3. PACKAGE CONTENTS

Verify that all components are present before proceeding with installation.

- 6 x TORCHSTAR 6 Inch Slim LED Recessed Light Fixtures
- 6 x Junction Boxes (integrated with each light fixture)

- [Wire Nuts / Connectors](#)
- [Installation Template](#)
- [Instruction Manual](#)

4. SPECIFICATIONS

Brand	TORCHSTAR
Model Name	Basic Series LED Downlight
Model Number	JXLDL6D-6P12W30
Size	6 Inch
Color Temperature	3000K Warm White
Brightness	1100 Lumens
Wattage	12 Watts
Voltage	120 Volts
Dimmable	Yes (5%-100%)
CRI	90+
Lifespan	50,000 hours
Material	Aluminum
Installation Type	Flush Mount (Recessed)
Clearance Required	Minimum 2 inches
Certifications	ETL, FCC, Energy Star, IC Rated
Product Dimensions	8.5"L x 11.1"W x 6.61"H (Package)
Item Weight	1.05 Pounds (per unit)

PRODUCT DIMENSION

Cut-out hole size: ϕ 6.10inch (155mm)

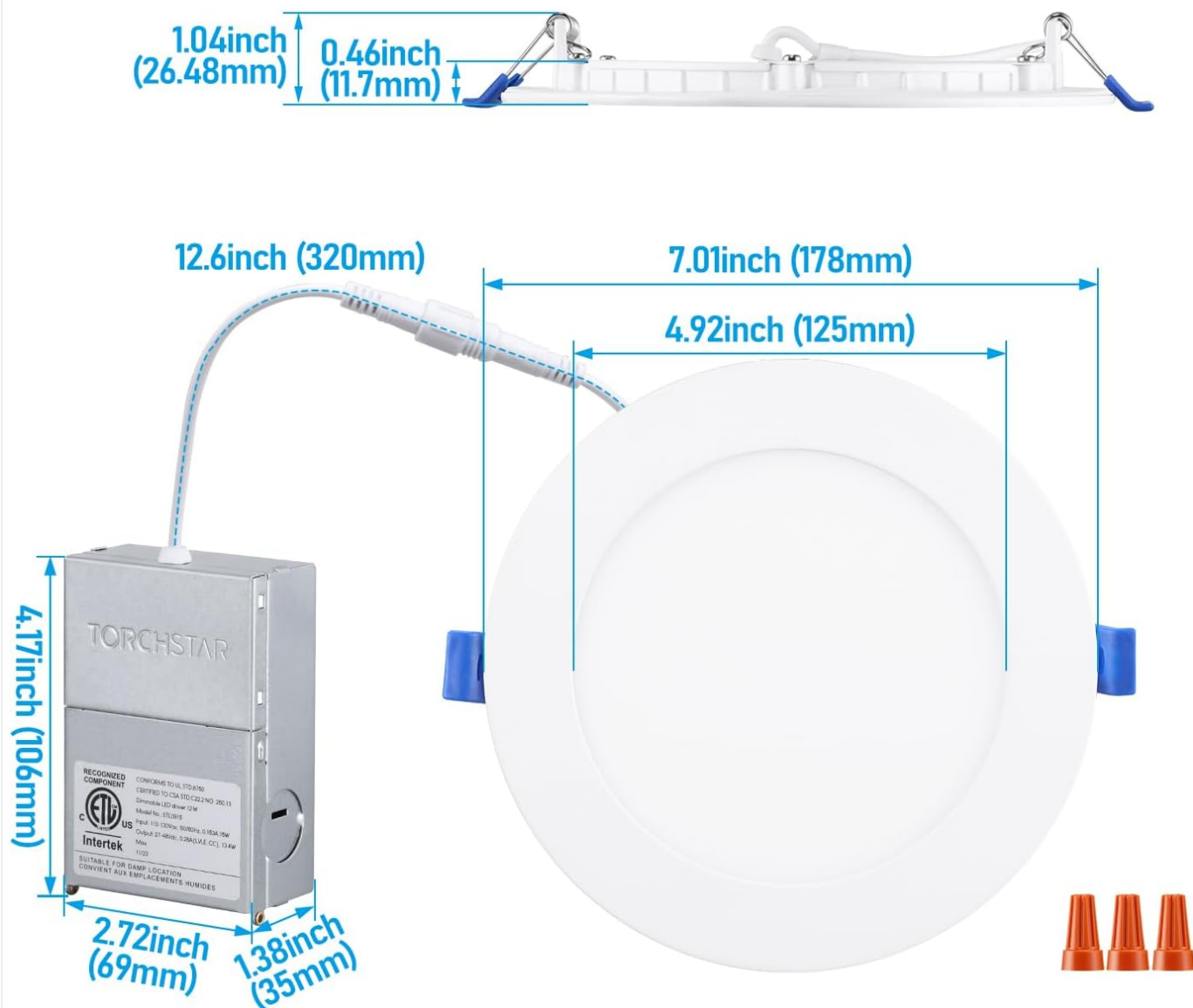


Image: Detailed product dimensions, including cut-out hole size (6.10 inches / 155mm) and junction box measurements.

Free to Install Anywhere

Don't Let Electrical Boxes or Ceiling Joists Limit Your Creativity

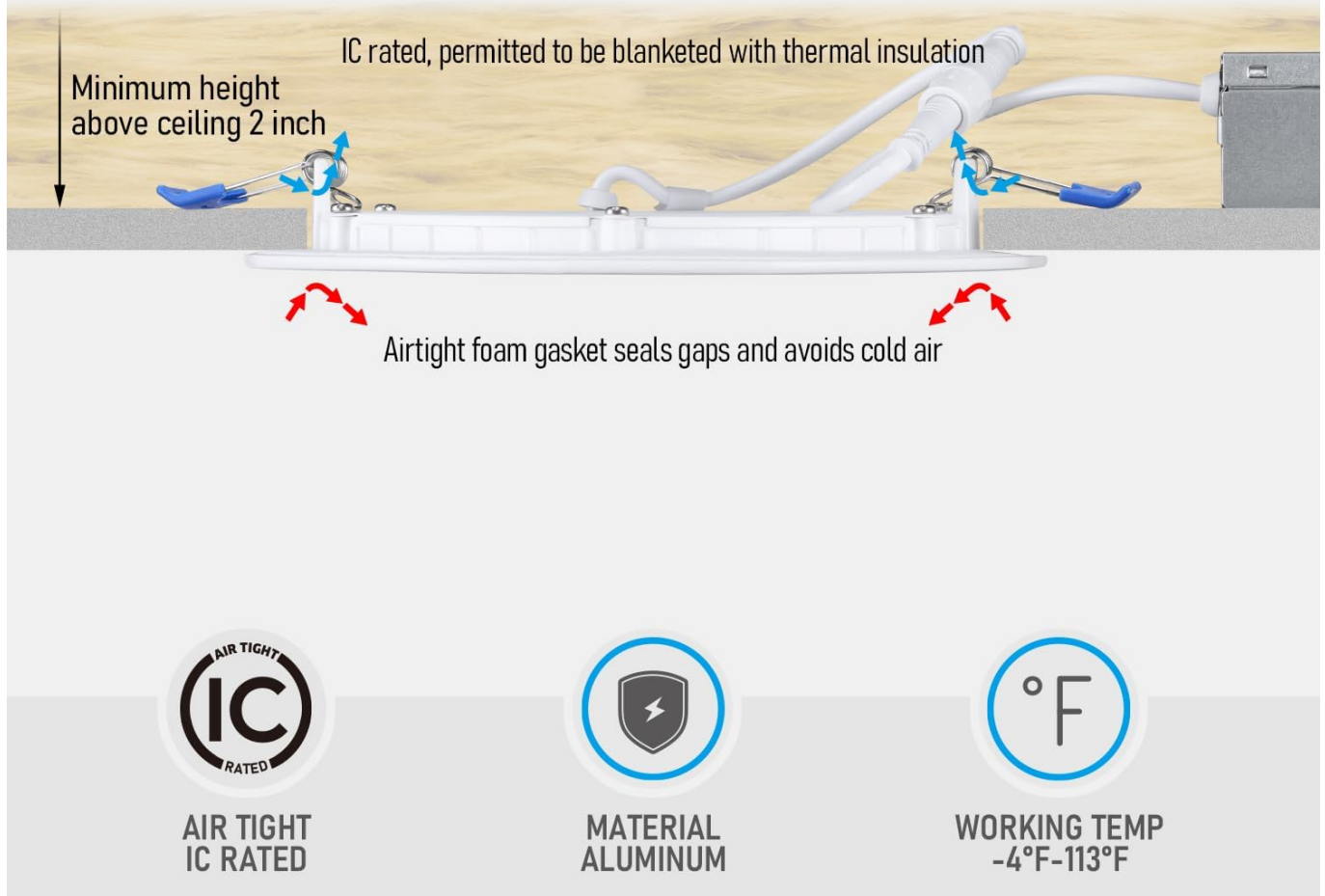


Image: Illustration of the minimum 2-inch height clearance required above the ceiling and the IC rating, permitting direct contact with thermal insulation.

5. INSTALLATION INSTRUCTIONS

Follow these steps for safe and proper installation. It is recommended to consult a qualified electrician if you are unsure about any part of the installation process.

1. Prepare the Installation Area:

- Turn off power at the circuit breaker before starting any electrical work.
- Determine the desired location for each light fixture. Ensure there are no obstructions (e.g., pipes, wires, joists) in the ceiling cavity.
- Use the provided template to mark the cut-out hole on the ceiling. The recommended cut-out hole size is approximately 6.10 inches (155mm).

2. Cut the Hole:

- Carefully cut the marked hole in the ceiling using an appropriate tool (e.g., hole saw).

INSTALLATION INSTRUCTIONS



Image: Step 1 - Cutting a 6.10-inch diameter hole in the ceiling.

3. Connect the Wires:

- Open the junction box cover.
- Connect the household electrical wires to the corresponding wires in the junction box using the provided wire nuts:
 - Black wire to Black (Live)
 - White wire to White (Neutral)
 - Green/Bare copper wire to Green (Ground)
- Ensure all connections are secure and properly insulated. Close the junction box cover.



Image: Step 2 - Connecting the electrical wires to the junction box.

4. Connect the LED Panel to the Driver:

- Plug the connector from the LED panel into the corresponding receptacle on the junction box (driver).



Image: Step 3 - Connecting the LED panel to the driver unit.

5. Insert the Light into the Ceiling:

- Gently push the junction box through the cut-out hole into the ceiling cavity.
- Push the spring-loaded clips on the sides of the LED panel upwards and insert the light fixture into the hole.
- Release the clips; they will secure the light fixture firmly against the ceiling.



Image: Step 4 - Inserting the LED recessed light into the ceiling.

6. Restore Power:

- Once all lights are installed, restore power at the circuit breaker.
- Test the lights to ensure proper operation.

6. OPERATING INSTRUCTIONS

The TORCHSTAR 6 Inch Slim LED Recessed Lights are designed for simple operation.

- **Turning On/Off:** Operate the lights using a standard wall switch connected to the circuit.
- **Dimming Function:** These lights are 5%-100% dimmable. To utilize the dimming feature, ensure they are connected to a compatible LED dimmer switch. Refer to your dimmer switch's instructions for specific operation.
- **Light Color:** This model provides 3000K Warm White light, offering a comfortable and inviting ambiance.

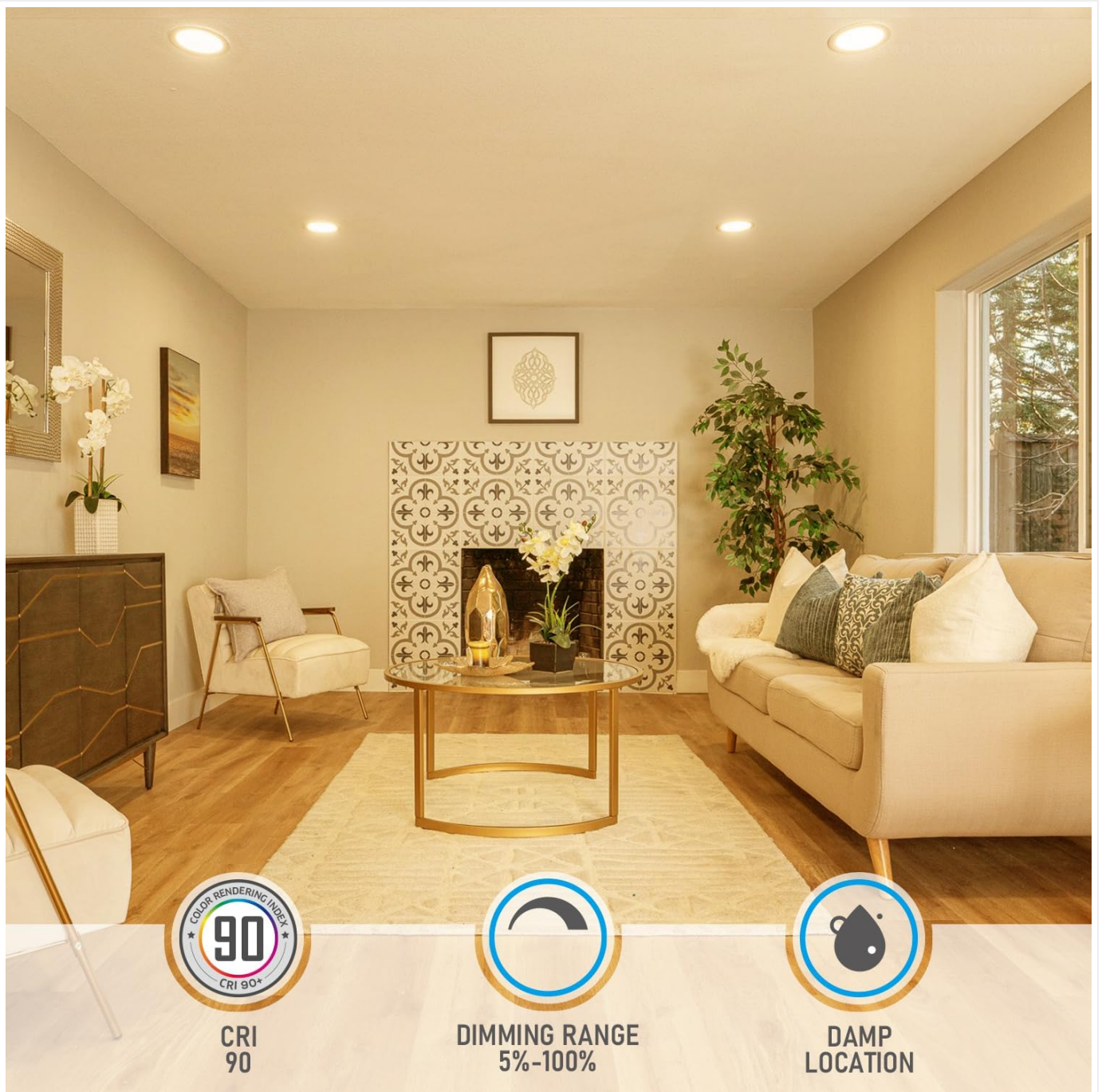


Image: Example of the TORCHSTAR LED Recessed Lights in a living room setting, demonstrating their dimmable capability and high CRI for accurate color rendering.



Image: Visual representation of the warm white light output, highlighting key features like 50,000-hour lifespan, 1100 lumens brightness, and a 110-degree beam angle.

7. MAINTENANCE

These LED recessed lights require minimal maintenance.

- **Cleaning:** Ensure power is off before cleaning. Wipe the light fixture with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners or solvents.
- **No Bulb Replacement:** As integrated LED fixtures, there are no bulbs to replace. The LEDs are designed for a long lifespan of 50,000 hours.
- **Inspection:** Periodically inspect the fixtures for any signs of damage or loose connections. If any issues are found, disconnect power and consult a qualified electrician.

8. TROUBLESHOOTING

If you encounter issues with your TORCHSTAR LED Recessed Lights, refer to the following common troubleshooting steps:

Problem	Possible Cause & Solution
Light does not turn on	◦ No power: Check the circuit breaker and wall switch. Ensure power is restored. ◦ Loose wiring: Turn off power and check all wire connections in the junction box. ◦ Faulty fixture: If other lights on the same circuit work, the individual fixture may be faulty. Contact customer support.
Light flickers or dims inconsistently	◦ Incompatible dimmer: Ensure you are using an LED-compatible dimmer switch. Some older dimmers may not work correctly with LEDs. ◦ Loose connections: Turn off power and check all wire connections. ◦ Overloaded circuit: Ensure the circuit is not overloaded with too many fixtures or other electrical devices.
Light is not as bright as expected	◦ Dimmer setting: If using a dimmer, ensure it is set to maximum brightness. ◦ Voltage drop: In rare cases, long wire runs can cause voltage drop. Consult an electrician.

9. WARRANTY AND SUPPORT

TORCHSTAR products are manufactured to high-quality standards and are backed by a comprehensive warranty.

- **Warranty Period:** This product comes with a 3-year limited warranty.
- **Coverage:** The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, abuse, or acts of nature.
- **Claiming Warranty:** For warranty claims or technical support, please contact TORCHSTAR customer service. Keep your proof of purchase.
- **Online Support:** Visit the official TORCHSTAR store for additional product information and support:[TORCHSTAR Store](#)

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Question

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