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TORCHSTAR TSMH-GU10-07W-10P50

TORCHSTAR 10 Pack MR16 GU10 LED Light Bulb User Manual

Model: TSMH-GU10-07W-10P50

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your TORCHSTAR 10 Pack MR16 GU10 LED Light Bulbs. These 7-watt LED bulbs are designed as energy-efficient replacements for 60-watt halogen bulbs, offering 500 lumens of 5000K daylight illumination with a 36-degree beam angle. They are UL-Listed and suitable for track lighting and recessed light fixtures.



Image 1.1: A pack of ten TORCHSTAR MR16 GU10 LED light bulbs, showcasing their compact design and GU10 base.

Key features of these LED bulbs include:

- **High Brightness:** 500 lumens, equivalent to a 60W halogen GU10 bulb, with significantly lower energy consumption (only 15% or less).
- **Efficient Cooling:** Features uniquely designed prismatic grooves and ventilation slots for excellent thermal degradation, ensuring a longer and more stable service life.
- **Safety:** Constructed with lightweight thermoplastic insulating material and a completely insulated power driver to protect users from electric shocks. UL-Listed for safety and reliability.
- **Standard Fit:** Designed with a standard size of $\Phi 1.97 \times 2.17$ inches, making them a direct replacement for traditional GU10 base halogen light bulbs.
- **Color Rendering:** A Color Rendering Index (CRI) greater than 80 ensures objects are displayed with realistic and natural colors.



Image 1.2: An example of a modern building illuminated by lighting, showcasing the potential application of these LED bulbs in various settings.

2. SETUP AND INSTALLATION

These TORCHSTAR GU10 LED bulbs are designed for easy installation into compatible GU10 fixtures. Ensure the power supply to the fixture is turned off before beginning installation to prevent electrical shock.

1. **Safety First:** Before handling the bulb or fixture, ensure the power switch controlling the light fixture is in the "OFF" position. If possible, turn off the circuit breaker for added safety.
2. **Remove Old Bulb (if applicable):** Allow the old bulb to cool completely before touching it. Gently twist the old GU10 bulb counter-clockwise to unlock it from the fixture, then pull it straight out.
3. **Insert New LED Bulb:** Align the two pins of the new TORCHSTAR GU10 LED bulb with the two holes in the fixture socket. Push the bulb gently into the socket, then twist it clockwise until it locks securely into place.
4. **Restore Power:** Once the bulb is securely installed, restore power to the fixture by turning on the power switch or circuit breaker.
5. **Test:** Turn on the light switch to confirm the bulb is functioning correctly.

Important Note: These bulbs are **non-dimmable**. Do not use them with dimmer switches or dimmable circuits, as this can cause flickering, damage to the bulb, or premature failure. Ensure your fixture is connected to a standard on/off switch.

3. OPERATING INSTRUCTIONS

Operating your TORCHSTAR GU10 LED light bulbs is straightforward. Once properly installed and connected to a standard power supply, simply use the wall switch or fixture switch to turn the light on or off.

- **Turning On:** Flip the connected light switch to the "ON" position. The bulb will illuminate instantly with full brightness.
- **Turning Off:** Flip the connected light switch to the "OFF" position. The bulb will turn off.

These bulbs provide a consistent 5000K daylight white light, ideal for areas requiring clear, bright illumination such as kitchens, offices, or display areas. The 36-degree beam angle is suitable for accent lighting or general illumination in track and recessed lighting applications.

4. MAINTENANCE

TORCHSTAR GU10 LED light bulbs are designed for long-term, maintenance-free operation, with an estimated lifespan of up to 30,000 hours. Minimal maintenance is required to ensure optimal performance.

- **Cleaning:** If the bulb surface accumulates dust, ensure the power is off and the bulb is cool. Gently wipe the bulb with a soft, dry, lint-free cloth. Do not use liquid cleaners or abrasive materials, as these can damage the bulb.
- **Inspection:** Periodically inspect the bulb and fixture for any signs of damage or loose connections. If any issues are observed, turn off the power immediately and consult a qualified electrician.
- **Replacement:** Due to their long lifespan, frequent replacement is not expected. Replace the bulb only when it reaches the end of its operational life.

5. TROUBLESHOOTING

If you encounter issues with your TORCHSTAR GU10 LED light bulbs, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Bulb does not light up.	No power to the fixture. Bulb not properly seated in socket. Faulty bulb.	Check wall switch and circuit breaker. Turn off power, remove and re-insert bulb, ensuring it is twisted securely. Test the bulb in a known working fixture. If still not working, replace the bulb.
Bulb flickers or dims.	Used with a dimmer switch. Loose connection. Incompatible fixture or wiring.	These bulbs are non-dimmable . Remove from dimmer circuit and install in a standard on/off circuit. Turn off power, check bulb seating and fixture wiring. Consult a qualified electrician to check fixture compatibility and wiring.
Light output is too low.	Dust accumulation on bulb. Incorrect bulb for application.	Turn off power, allow bulb to cool, and gently wipe with a dry cloth. Ensure the bulb's lumen output (500Lm) and beam angle (36°) are suitable for your lighting needs.

If problems persist after following these steps, please contact TORCHSTAR customer support.

6. SPECIFICATIONS

Detailed technical specifications for the TORCHSTAR MR16 GU10 LED Light Bulb:

Attribute	Value
Model Number	TSMH-GU10-07W-10P50
Wattage	7 Watts
Equivalent Halogen Wattage	60 Watts
Lumen Output	500 Lumens
Color Temperature	5000K Daylight
Beam Angle	36 Degrees
Base Type	GU10
Bulb Shape Size	MR16
Dimmable	No (Non-Dimmable)
Color Rendering Index (CRI)	>80
Lifespan	Up to 30,000 hours
Certifications	UL-Listed
Product Dimensions	1.97 x 1.97 x 2.17 inches (50.03 x 50.03 x 55.11 mm)
Weight	2.24 ounces

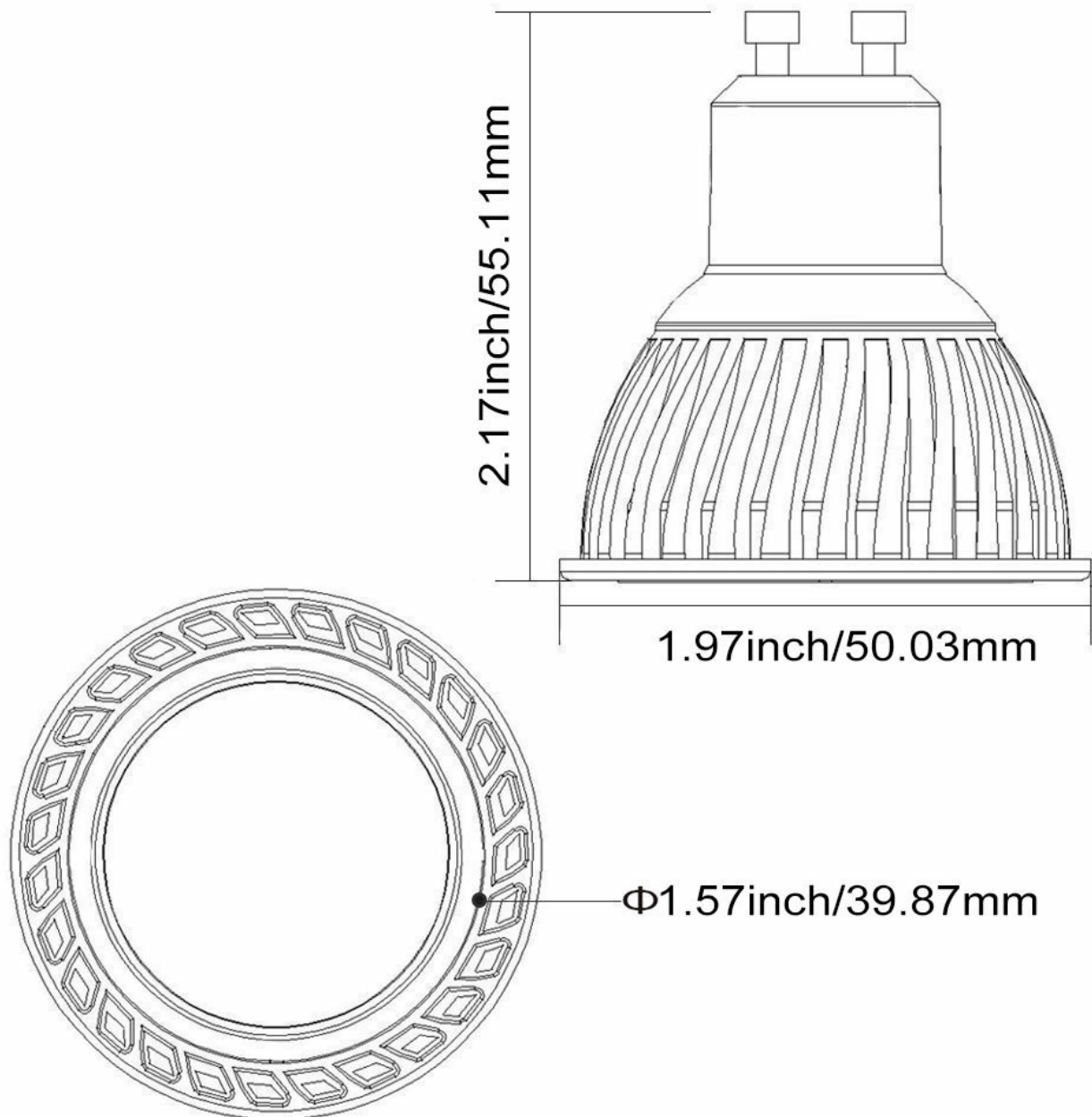


Image 6.1: Dimensional drawing of the TORCHSTAR MR16 GU10 LED bulb, indicating its height and diameter.

7. WARRANTY AND SUPPORT

TORCHSTAR stands behind the quality of its products. These MR16 GU10 LED light bulbs come with a **2-year warranty** from the date of purchase.

This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, abuse, or connection to incompatible dimmer circuits.

For warranty claims, technical support, or any questions regarding your TORCHSTAR product, please contact our customer support team. Please have your purchase information and model number (TSMH-GU10-07W-10P50) ready when contacting support.

For more information and support resources, please visit the official TORCHSTAR store on Amazon: TORCHSTAR Amazon Store.

