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V-TAC 7010

V-TAC VT-509 E27 9W LED Emergency Bulb User Manual

Model: VT-509 (SKU 7010)

1. Product Overview

The V-TAC VT-509 LED A70 emergency bulb is designed with modern LED technology and an integrated 3.7V, 1800mAh backup battery. This bulb provides reliable illumination, functioning as a standard LED bulb during normal power supply and automatically switching to emergency mode during power outages. It offers 300 lumens of light when operating on battery power, providing 3.5-4.5 hours of emergency operation after a 6-hour charge.
Suitable for various applications including residential, commercial, and decorative lighting, such as living rooms. It features an E27 base, operates on 220-240V, and emits a natural 4000K light through a satin white diffuser. The bulb is non-dimmable and has an IP20 protection rating, making it suitable for indoor use or outdoor use when enclosed in a suitable fixture.

Key Features:

- **Model:** VT-509 (SKU 7010)
- **Base Type:** E27
- **Power:** 9W (Mains), 3W (Emergency)
- **Light Color:** 4000K Natural White
- **Luminous Flux:** 720 lumens (Mains), 300 lumens (Emergency)
- **Emergency Battery:** 3.7V, 1800mAh
- **Emergency Operation Time:** 3.5-4.5 hours
- **Charging Time:** 6 hours (in emergency version)
- **Beam Angle:** 200 degrees
- **Lifespan:** 20,000 hours
- **Dimensions:** 13.5 x 7 cm
- **Special Feature:** Flicker-free operation

2. Safety Instructions

- Always switch off the power supply before installation or maintenance.
- Do not disassemble or modify the bulb. Unauthorized modifications can lead to electric shock or fire.
- Ensure the bulb is securely screwed into a compatible E27 socket.

- This bulb is rated IP20 for indoor use. If used outdoors, it must be installed within a suitable, weather-protected fixture.
- Do not expose the bulb to direct water spray or immerse it in liquid.
- Keep out of reach of children.
- Do not use with dimmers, as this bulb is non-dimmable.
- If the bulb is damaged, discontinue use immediately and replace it.

3. Package Contents

- 1 x V-TAC VT-509 E27 9W LED Emergency Bulb

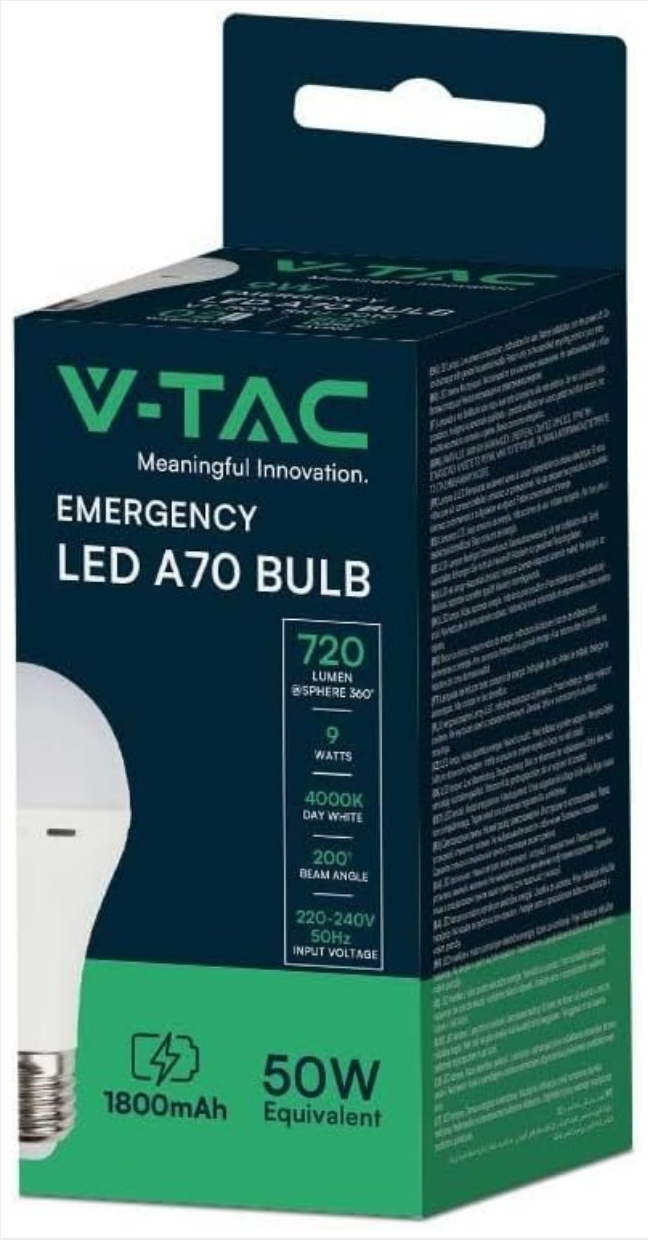


Figure 3.1: Packaging of the V-TAC VT-509 LED Emergency Bulb.

4. Setup and Installation

1. **Power Off:** Before installation, ensure the power supply to the light fixture is completely switched off at the main circuit breaker.
2. **Remove Old Bulb:** Carefully unscrew and remove the existing bulb from the E27 socket.
3. **Install New Bulb:** Gently screw the V-TAC VT-509 LED Emergency Bulb into the E27 socket until it is firmly

seated. Do not overtighten.

4. **Restore Power:** Turn the power supply back on at the main circuit breaker.
5. **Test Functionality:** Switch on the light. The bulb should illuminate.



Figure 4.1: The V-TAC VT-509 LED Emergency Bulb.



Figure 4.2: Dimensions of the VT-509 bulb (70mm diameter, 135mm height).

5. Operating Instructions

Normal Operation:

When the power supply is active, the V-TAC VT-509 functions as a standard 9W LED bulb, providing 720 lumens of 4000K natural white light. During this time, the internal battery charges automatically. A full charge takes approximately 6 hours.

Emergency Mode:

In the event of a power outage, the bulb will automatically switch to emergency mode, utilizing its internal battery. In emergency mode, the bulb provides 300 lumens of light for approximately 3.5 to 4.5 hours. The bulb will remain lit in emergency mode until the battery is depleted or the main power supply is restored.

Using as a Portable Torch:

The VT-509 bulb can also be used as a portable torch. Simply unscrew it from the socket and hold the base. The bulb

will illuminate, providing temporary light.



Figure 5.1: Details on the A70 emergency bulb with integrated battery, showing working and charging times.



Figure 5.2: Illustration of the 200-degree beam angle provided by the V-TAC VT-509 LED bulb.



Figure 5.3: Example of the V-TAC VT-509 bulb providing illumination in an emergency scenario, such as inside a tent.

6. Maintenance

- **Cleaning:** Ensure the power is off before cleaning. Wipe the bulb with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- **Storage:** If storing the bulb for an extended period, ensure it is fully charged before storage and recharge it every 3-6 months to maintain battery health. Store in a cool, dry place.
- **Battery Life:** The integrated battery has a limited lifespan. Over time, its capacity may decrease.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Bulb does not light up (normal operation).	No power to the socket, loose connection, faulty bulb.	Check power supply and circuit breaker. Ensure bulb is screwed in tightly. Test with another known working bulb.
Bulb does not light up in emergency mode.	Battery is depleted, battery fault.	Ensure the bulb has been charged for at least 6 hours while connected to mains power. If problem persists, the battery may be faulty.
Emergency light duration is shorter than expected.	Battery not fully charged, aging battery.	Allow the bulb to charge for a full 6 hours. Battery capacity naturally decreases over time.
Bulb flickers.	Unstable power supply, incompatible dimmer (though this bulb is non-dimmable).	Ensure power supply is stable. Do not use with dimmer switches.

8. Technical Specifications

Brand	V-TAC
Model Number	7010 (VT-509)
Type of Light	LED
Base Type	E27
Power (Mains)	9 Watts
Power (Emergency)	3 Watts
Voltage	220-240V (Mains), 3.7V (Battery)
Luminous Flux (Mains)	720 lm
Luminous Flux (Emergency)	300 lm
Color Temperature	4000 Kelvin (Natural White)
Beam Angle	200 degrees
Emergency Battery	1800 mAh
Emergency Operation Time	3.5 - 4.5 hours
Charging Time	6 hours
Lifespan	20,000 hours
Energy Efficiency Class	F
Product Dimensions (L x W x H)	7 x 7 x 13.5 cm
Item Weight	70 grams
Special Feature	Flicker-free

IP Rating	IP20 (Indoor use)

9. Warranty and Support

For warranty information and customer support, please refer to the retailer's policy or contact V-TAC customer service directly. Keep your purchase receipt as proof of purchase.
For further assistance or technical inquiries, please visit the official V-TAC website or contact their support channels.

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