

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Lithonia Lighting](#) /
- › [Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign User Manual](#)

Lithonia Lighting EDG 1 R EL M6

Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign User Manual

Model: EDG 1 R EL M6

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign. This edge-lit sign is designed for emergency egress lighting in commercial and institutional environments, ensuring clear visibility during power outages.

The EDG 1 R EL M6 features a durable aluminum construction, energy-efficient LED illumination, and a reliable battery backup system. Adherence to these instructions will ensure proper function and compliance with safety standards.

2. SAFETY INFORMATION

- **Read all instructions:** Before beginning installation or maintenance, carefully read and understand all instructions provided in this manual.
- **Disconnect power:** Always disconnect power at the circuit breaker before installing, servicing, or cleaning the unit. Failure to do so may result in electric shock or serious injury.
- **Qualified personnel:** Installation, servicing, and testing must be performed by qualified personnel in accordance with all national and local electrical codes and safety regulations.
- **UL 924 Compliance:** This product is designed to meet UL 924 standards for emergency lighting and power equipment. Ensure all installations comply with these and other applicable standards.
- **Battery handling:** The unit contains a sealed, maintenance-free nickel-cadmium battery. Do not attempt to open or service the battery. Dispose of batteries according to local regulations.
- **Environmental conditions:** Install in locations where ambient temperatures are within the specified operating range. Do not install near gas or electric heaters.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign (Battery-Powered, Red)
- Mounting Hardware (typically includes screws, anchors, and canopy)

- Instruction Sheet / Wiring Diagram

4. SETUP AND INSTALLATION

The EDG 1 R EL M6 is designed for surface mounting. Ensure the mounting surface is structurally sound and capable of supporting the fixture's weight.

4.1 Mounting Options

This unit supports various surface mounting configurations. Refer to the included wiring diagram for specific instructions on ceiling, wall, or end mounting.



Image: Top-down view of the Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign, showing the brushed aluminum housing and clear acrylic panel with red 'EXIT' letters.

4.2 Electrical Connections

- **Power Supply:** The unit is dual voltage (120/277V). Connect the appropriate AC power supply wires to the fixture's input terminals as indicated in the wiring diagram.
- **Battery Connection:** Ensure the internal battery is properly connected after wiring the AC power. The battery is typically pre-connected but may require a final plug-in during installation.
- **Initial Charge:** After installation and power connection, allow the unit to charge for a minimum of 24 hours before conducting any tests. This ensures the nickel-cadmium battery reaches full capacity.



Image: Side view of the Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign, highlighting its slim profile and edge-lit design.

5. OPERATING INSTRUCTIONS

The Lithonia Lighting EDG 1 R EL M6 operates automatically once properly installed and charged.

- **Normal Operation:** When AC power is present, the LED 'EXIT' letters will be illuminated. The internal battery will continuously charge to maintain readiness for emergency operation.
- **Emergency Operation:** In the event of an AC power failure, the unit will automatically switch to battery power, illuminating the 'EXIT' letters for a minimum of 90 minutes.
- **Test Button:** A test button is typically located on the side or bottom of the unit. Pressing this button simulates an AC power failure, allowing you to verify the emergency lighting function. The 'EXIT' letters should illuminate when the button is pressed and extinguish when released (assuming AC power is present).



Image: Front view of the Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign, clearly showing the red 'EXIT' letters.

6. MAINTENANCE

The EDG 1 R EL M6 is designed for low maintenance. However, regular checks are essential to ensure continued reliability.

- **Monthly Testing:** Press the test button for at least 30 seconds to ensure the emergency lights operate.
- **Annual Testing:** Disconnect AC power to the unit for a full 90-minute discharge test. The unit should remain illuminated for the entire duration. Reconnect AC power after the test.
- **Cleaning:** Clean the exterior surfaces and acrylic panel with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.
- **Battery Replacement:** The nickel-cadmium battery is maintenance-free and has a long lifespan. If the unit fails to hold a charge or operate for the required 90 minutes during testing, the battery may need replacement by qualified service personnel.
- **NFPA Compliance:** All life safety equipment, including emergency lighting for paths of egress, must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes.

7. TROUBLESHOOTING

If your EDG 1 R EL M6 LED Emergency Exit Sign is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
'EXIT' letters do not illuminate during AC power failure.	Battery not charged or faulty; AC power not connected.	Ensure AC power is connected and allow 24 hours for initial charge. If problem persists, battery may need replacement.
'EXIT' letters do not illuminate when test button is pressed.	Battery not connected or faulty; unit not receiving AC power.	Verify AC power connection. Check battery connection. Allow 24 hours for charge.
Unit does not stay illuminated for 90 minutes during annual test.	Battery capacity reduced due to age or defect.	Battery needs replacement. Contact qualified service personnel.
'EXIT' letters are dim.	Low battery charge; dirty acrylic panel.	Allow unit to charge for 24 hours. Clean the acrylic panel.

For issues not listed above, or if troubleshooting steps do not resolve the problem, contact Lithonia Lighting customer support or a qualified electrician.

8. SPECIFICATIONS

Detailed technical specifications for the Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign:

- **Model Number:** EDG 1 R EL M6
- **Part Number:** LTHEDG1RELM6
- **Manufacturer:** Lithonia Lighting
- **Dimensions:** Approximately 13 inches (Width) x 11.12 inches (Height)
- **Item Weight:** 2.2 pounds (1 Kilogram)
- **Color:** Red (letters)
- **Style:** Battery-Powered
- **Finish:** Brushed Aluminum
- **Material:** Aluminum (housing), Acrylic (panel)
- **Power Source:** AC (for charging)
- **Voltage:** 120/277V (Dual Voltage)
- **Wattage:** 3 watts
- **Type of Bulb:** LED
- **Mounting Type:** Surface Mount (Ceiling, Wall, End)
- **Certification:** UL Listed
- **Battery:** Sealed, maintenance-free Nickel-Cadmium
- **Emergency Operation Duration:** 90 minutes minimum

- **LED Lamp Life:** Up to 100,000 hours
- **Letter Height:** 6 inches
- **Stroke Width:** 3/4 inch
- **Viewing Distance:** 100 feet (UL 924 standard)



Image: Lithonia Lighting EDG 1 R EL M6 LED Emergency Exit Sign with key dimensions indicated.

9. WARRANTY AND SUPPORT

For detailed warranty information, product registration, or technical support, please visit the official Lithonia Lighting website or contact their customer service department. Keep your purchase receipt for warranty claims.

Lithonia Lighting Customer Service: Refer to the contact information provided on the product packaging or the official brand website.