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## ULTECHNOVO HPERNR59MZ4MP0818S07OQQZ

# ULTECHNOVO 150A Manual Reset Circuit Breaker User Manual

Model: HPERNR59MZ4MP0818S07OQQZ

## 1. INTRODUCTION

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The ULTECHNOVO 150A Manual Reset Circuit Breaker is designed to provide overcurrent protection for various DC electrical systems. It is suitable for use in automotive, marine, and other DC equipment applications, preventing damage to electrical appliances from excessive current. This manual provides essential information for the safe and effective installation, operation, and maintenance of your circuit breaker.

## 2. PRODUCT FEATURES

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- **Current Rating:** 150 Amperes.
- **Voltage Compatibility:** Operates within a range of 5VDC (minimum) to 50VDC (maximum).
- **Manual Reset Function:** Allows for manual disconnection of the circuit and resetting after an overcurrent event.
- **Waterproof Design:** Features a high-tech waterproof casing for enhanced durability in various environments.
- **Mounting Options:** Can be mounted on a panel or firewall.
- **Versatile Application:** Widely used in automotive, marine, winch systems, DC equipment, electric vehicles, chargers, motors, and other electrical products requiring overcurrent protection.
- **Kill Switch Capability:** The unique push-button reset mechanism can also function as a kill switch for immediate power disconnection.

## 3. SAFETY INFORMATION

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Please read and understand all safety instructions before installing or operating this device. Failure to do so may result in property damage, injury, or death.

- **Disconnect Power:** Always disconnect the power source before attempting any installation or wiring to prevent electrical shock.
- **Correct Amperage:** Ensure the 150A rating of this circuit breaker is appropriate for your specific

application and the total current draw of your connected devices. Using an incorrectly rated breaker can lead to system failure or fire.

- **Proper Wiring:** Use appropriate gauge wiring for the current load. Incorrect wiring can cause overheating and fire hazards.
- **Secure Connections:** All electrical connections must be tight and secure to prevent arcing and overheating.
- **Environmental Considerations:** While waterproof, avoid submerging the unit unless specifically rated for such conditions.
- **Professional Assistance:** If you are unsure about any aspect of installation or wiring, consult a qualified electrician or automotive technician.

## 4. SETUP AND INSTALLATION

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This circuit breaker is designed for panel or firewall mounting. Follow these steps for proper installation:

1. **Choose Mounting Location:** Select a secure, accessible location for mounting the circuit breaker, such as a panel or firewall. Ensure the location is protected from excessive heat and physical damage.
2. **Mount the Breaker:** Securely fasten the circuit breaker using appropriate hardware (not included) through the mounting holes.
3. **Identify Terminals:** The circuit breaker has two main terminals:
  - **BAT (Input):** Connects to the positive (+) terminal of your power source (e.g., battery).
  - **AUX (Output):** Connects to the positive (+) terminal of the electrical appliance or circuit you wish to protect.
4. **Wire Connections:**
  - Connect the positive (+) cable from your power source to the **BAT** terminal.
  - Connect the positive (+) cable leading to your electrical load to the **AUX** terminal.
5. **Secure Connections:** Ensure all terminal connections are tight and free from corrosion. Loose connections can cause resistance, heat, and potential failure.



Figure 1: Side view of the ULTECHNOVO 150A Manual Reset Circuit Breaker, showing the main body and terminals.



Figure 2: Top view of the circuit breaker, clearly indicating the 'BAT' (battery/input) and 'AUX' (auxiliary/output) terminals for wiring connections.

## 5. OPERATING INSTRUCTIONS

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The ULTECHNOVO 150A Circuit Breaker offers both automatic overcurrent protection and manual control.

- 1. Normal Operation (Circuit Closed):** When the circuit breaker is engaged, the red lever will be in the 'ON' position, allowing current to flow through the circuit.
- 2. Automatic Overcurrent Protection (Trip):** If an excessive current condition occurs, the circuit breaker will automatically trip. The red lever will spring to the 'OFF' position, and the oval red button will pop out, disconnecting power to protect your connected devices.
- 3. Manual Disconnection (Kill Switch):** To manually disconnect the circuit (e.g., as a kill switch), simply press the oval red button. The red lever will automatically spring to the 'OFF' position, cutting off the power supply.
- 4. Resetting the Breaker:** After the breaker has tripped (either automatically or manually), you must first identify and resolve the cause of the overcurrent or the reason for manual disconnection. Once the issue is resolved, push the red lever back to the 'ON' position to restore power to the circuit.



Figure 3: Angled view of the circuit breaker, highlighting the red reset lever and button for manual operation.



Figure 4: Side view of the circuit breaker, providing a clear perspective of the red reset button mechanism.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable operation of your circuit breaker.

- **Inspect Connections:** Periodically check all wiring connections for tightness and signs of corrosion. Loose or corroded connections can lead to increased resistance and potential failure.
- **Keep Clean:** Keep the exterior of the circuit breaker clean and free from dirt, dust, and debris. Use a dry cloth for cleaning.
- **Check for Damage:** Inspect the unit for any physical damage, cracks in the casing, or signs of overheating. Replace the unit if any damage is observed.
- **Waterproof Integrity:** Ensure the waterproof casing remains intact, especially if the unit is exposed to moisture.

## 7. TROUBLESHOOTING

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If you encounter issues with your circuit breaker, refer to the following troubleshooting guide:

- **Breaker Trips Frequently:**

- **Overload:** The connected electrical load may be drawing more current than the 150A rating of the breaker. Reduce the load or ensure the total current draw is within limits.
  - **Short Circuit:** A short circuit in the wiring or connected device will cause the breaker to trip immediately. Inspect all wiring for damage, frayed insulation, or improper connections that could lead to a short.
  - **Faulty Device:** The appliance or device connected to the circuit may be faulty and drawing excessive current. Disconnect devices one by one to isolate the problem.
- **Breaker Does Not Reset:**
    - **Persistent Overcurrent:** The underlying overcurrent condition may still be present. The breaker is designed not to reset if the fault persists. Resolve the fault before attempting to reset.
    - **Internal Damage:** In rare cases, the breaker itself may be damaged. If the fault is cleared and the breaker still will not reset, it may need replacement.
- **No Power to Device (Breaker ON):**
    - **Loose Connections:** Check all wiring connections to ensure they are secure and making good contact.
    - **Wiring Fault:** Inspect the wiring for breaks or damage between the breaker and the device.
    - **Device Fault:** The connected device itself may be faulty.

## 8. SPECIFICATIONS

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<b>Brand</b>	ULTECHNOVO
<b>Model Number</b>	HPERNR59MZ4MP0818S07OQQZ
<b>Current Rating</b>	150 Amperes (A)
<b>Working Voltage</b>	5VDC (min) - 50VDC (max)
<b>Material</b>	Metal and Plastic
<b>Product Dimensions</b>	Approx. 8 x 5 x 4 cm (L x W x H)
<b>Weight</b>	85 g
<b>Country of Origin</b>	China

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. You may also visit the official ULTECHNOVO website for further assistance.