

Manuals.plus /
› ELOMILE /
› ELOMILE MQ12038HBL DC Axial Flow Fan User Manual

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Model: MQ12038HBL

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your ELOMILE MQ12038HBL DC Axial Flow Fan. Please read this manual thoroughly before using the product and retain it for future reference.

2. PRODUCT OVERVIEW

The ELOMILE MQ12038HBL is a 24V DC axial flow fan designed for various cooling applications. It features a compact 120x120x38mm size, making it suitable for integration into electronic enclosures, industrial equipment, and other systems requiring efficient air circulation.



Figure 2.1: Front view of the ELOMILE MQ12038HBL DC fan, highlighting the central label with model information.



Figure 2.2: Angled view of the ELOMILE MQ12038HBL DC fan, illustrating its overall design and construction.

3. SPECIFICATIONS

Refer to the following table for detailed technical specifications of the MQ12038HBL fan:

Specification	Value
Model	MQ12038HBL
Dimensions (L x W x H)	120mm x 120mm x 38mm (4.72" x 4.72" x 1.5")
Operating Voltage	24 Volts DC
Current	0.35 Amps
Wattage	8.4 Watts
Power Connector Type	2-Pin
Cooling Method	Air
Maximum Rotational Speed	2000 RPM

Specification	Value
Item Weight	9.1 ounces
Material (Motor)	Copper

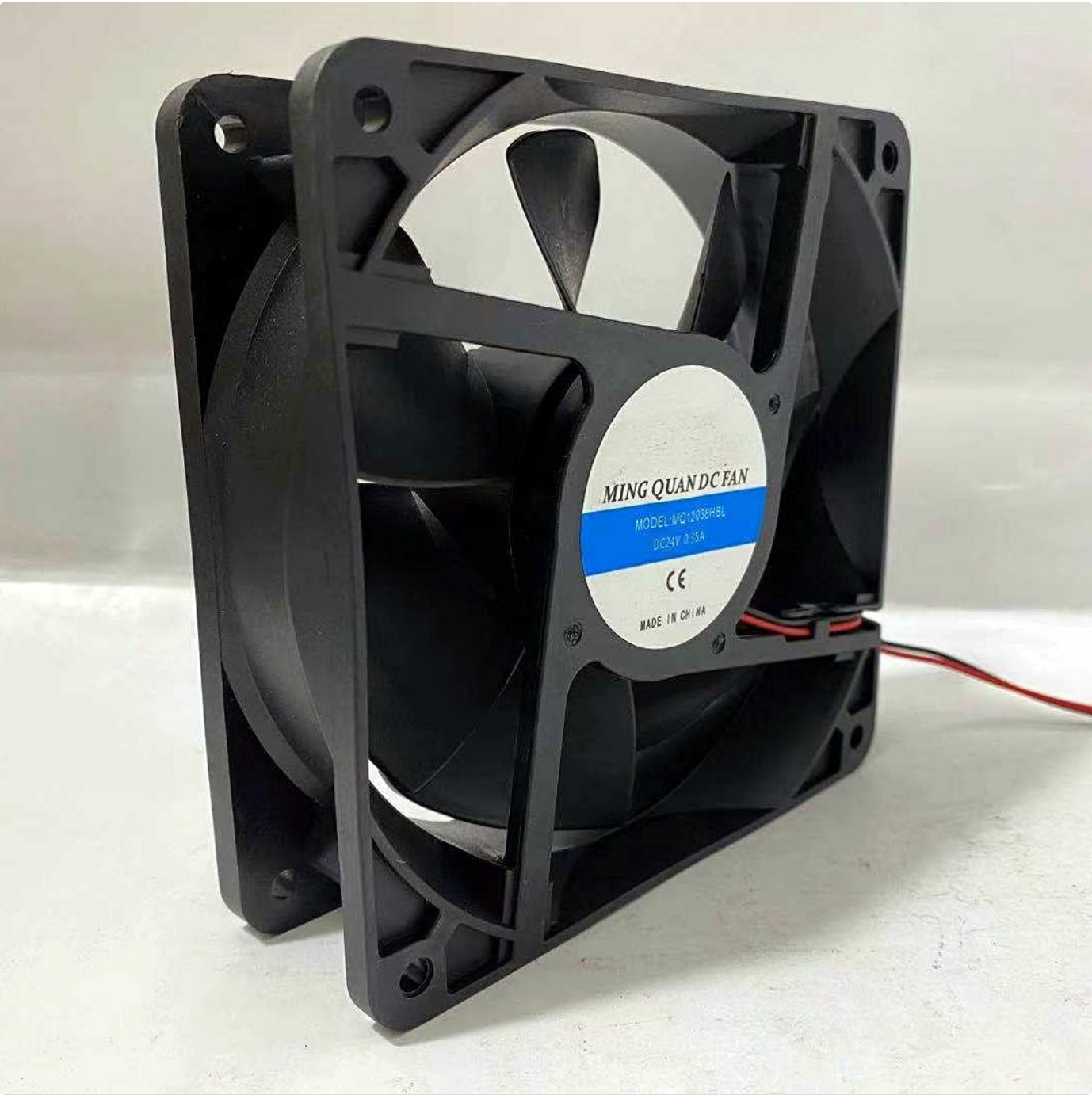


Figure 3.1: Side view of the fan, showing its depth of 38mm.

4. SETUP

4.1 Mounting

The fan features mounting holes on all four corners of its frame for secure installation. Ensure the fan is mounted in a position that allows for optimal airflow and prevents obstruction of the blades. Use appropriate screws (not included) for your specific application.

4.2 Wiring

The MQ12038HBL fan uses a 2-pin power connector. Connect the red wire to the positive (+) terminal of your 24V DC power supply and the black wire to the negative (-) terminal. Ensure correct polarity to prevent damage to the fan.



Figure 4.1: Fan with 2-pin power connector (red for positive, black for negative).

5. OPERATING INSTRUCTIONS

Once properly mounted and wired, the fan will begin operation when a stable 24V DC power supply is connected. The fan is designed for continuous operation within its specified voltage and current limits.

- **Power On:** Apply 24V DC power to the connected wires. The fan should start rotating immediately.
- **Power Off:** Disconnect the 24V DC power supply to stop the fan.
- **Airflow Direction:** The fan typically draws air from the side with the label and exhausts it from the opposite side. Verify the desired airflow direction before final installation.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your fan.

- **Cleaning:** Periodically inspect the fan blades and housing for dust accumulation. Disconnect power before cleaning. Use a soft brush or compressed air to gently remove dust. Avoid using liquids or harsh chemicals.
- **Inspection:** Check for any signs of damage to the fan blades, frame, or wiring. Ensure all mounting screws remain tight.
- **Lubrication:** This fan is designed with sealed bearings and typically does not require lubrication. Do not attempt to lubricate the bearings unless specifically instructed by the manufacturer.

7. TROUBLESHOOTING

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

- **Fan Not Spinning:**
 - Ensure the 24V DC power supply is connected and functioning correctly.
 - Verify that the wiring polarity (red to +, black to -) is correct.
 - Check for any obstructions preventing the blades from rotating.
 - Inspect the wires for damage or loose connections.
- **Unusual Noise:**
 - Check for loose mounting screws or vibrations.
 - Ensure no foreign objects are interfering with the fan blades.
 - Dust accumulation on blades can cause imbalance; clean the fan as per maintenance instructions.
- **Reduced Airflow:**
 - Check for obstructions at the intake or exhaust.
 - Clean any dust buildup on the fan blades or grille.
 - Verify the fan is receiving the correct 24V DC voltage.

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

8. WARRANTY AND SUPPORT

ELOMILE products are manufactured to high-quality standards. For warranty information or technical support, please refer to the purchase documentation or contact your vendor. Keep your purchase receipt as proof of purchase.

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Example: How do I reset this device or fix this error?

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