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› Wathai 120x120x25mm 24V 2Pin 2000RPM Case Fan User Manual

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Model: 120x120x25mm 24V 2Pin 2000RPM

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Wathai 120x120x25mm 24V 2Pin 2000RPM DC Brushless Motor Case Fan. Please read this manual thoroughly before installation and operation, and retain it for future reference.

2. SAFETY INFORMATION

- Ensure the power supply matches the fan's rated voltage (24V DC). Connecting to an incorrect voltage may damage the fan or power source.
- Disconnect power before installation, cleaning, or maintenance to prevent electrical shock.
- Avoid touching the fan blades while the fan is operating.
- Keep the fan away from water or excessive moisture.
- Do not obstruct the fan's airflow, as this can lead to overheating and reduced performance.
- Install the fan in a well-ventilated area.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Wathai 120x120x25mm 24V 2Pin 2000RPM Case Fan
- 1 x Fan Grill
- 4 x Mounting Screws and Nuts

Fan accessories

1 Piece fan /1 fan grill /4 x mounting screws & nuts



Image: The Wathai 120mm fan shown with its accessories, including a fan grill and mounting hardware.

4. SPECIFICATIONS

The following table details the technical specifications of the Wathai 120x120x25mm 24V 2Pin 2000RPM Case Fan:



Image: Detailed specifications table for the fan, including dimensions, electrical ratings, and performance metrics. A diagram illustrates the fan's physical dimensions and the 2-pin connector wiring (Black for negative, Red for positive).

Feature	Specification
Size	120x120x25mm (4.71"L x 4.72"W x 1"H)
Rated Voltage	24V DC
Power Connector Type	2-Pin (XH2.54)
Speed	2000 RPM (Max 2100 RPM)
Airflow Capacity	74 CFM
Noise Level	26 dBA
Bearing Type	Sleeve Bearing
Lifespan	Up to 35,000 hours
Cable Length	30cm (12 inches)
Material	Plastic
Item Weight	4.4 Ounces

5. SETUP AND INSTALLATION

Follow these steps to properly install your Wathai case fan:

1. **Prepare the Mounting Location:** Identify the desired location for the fan. Ensure there is sufficient space and proper airflow.
2. **Attach the Fan Grill (Optional):** If using the included fan grill for protection, align it with the fan's mounting holes and secure it using the provided screws and nuts.
3. **Mount the Fan:** Position the fan in the desired location. Use the provided mounting screws and nuts to secure the fan firmly. Ensure the fan is oriented correctly for desired airflow direction (intake or exhaust).
4. **Connect Power:** Connect the fan's 2-pin XH2.54 connector to a compatible 24V DC power source. Ensure correct polarity: the red wire is positive (+), and the black wire is negative (-).

Application

Good for installed as a replacement fan for Plasma Cutter, as a vent fan for air circulation ,cool down pc CPU, inverter, for underground garage refresh air. replace for high cfm industrial fan.



Multiple Choice



Plasma Cutter fan



PC CPU case



Inverter Cooling



UPS Battery

Image: A close-up view of the fan's 2-pin XH2.54 connector, highlighting the red and black wires for power connection.

Your browser does not support the video tag.

Video: A short demonstration of the Wathai 120mm fan in operation, showcasing its basic function and potential for DIY cooling applications.

6. OPERATING INSTRUCTIONS

Once installed and connected to a 24V DC power source, the fan will begin to operate, providing airflow for cooling. The fan is designed for continuous operation.

- **Power On/Off:** The fan's operation is controlled by the power supply it is connected to. Turn the power supply on or off to start or stop the fan.
- **Airflow Direction:** The fan typically has an arrow indicating the direction of airflow on its side. Ensure it is oriented to provide cooling to the desired area or to exhaust hot air.



RV & Camper



Outdoor Activities



Boat & Fishing



Solar panels



Power Backup



Plasma Cutter

Image: Various application scenarios for the Wathai 120mm fan, such as cooling PC components, inverters, and other electronic enclosures.

Your browser does not support the video tag.

Video: A brief video illustrating the Wathai 120mm fan's use in a DIY cooling project, demonstrating its versatility.

7. MAINTENANCE

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

- **Cleaning:** Periodically clean the fan blades and housing to remove dust and debris. Use a soft brush or compressed air. Ensure the fan is disconnected from power before cleaning.
- **Inspection:** Check for any signs of wear or damage to the fan blades or power cable. If any damage is found, discontinue use and replace the fan.
- **Lubrication:** This fan uses a sleeve bearing, which is generally maintenance-free. Do not attempt to lubricate the bearing unless specifically instructed by a qualified technician.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Fan does not spin	No power, incorrect wiring, faulty fan.	Check power connection and source. Verify correct polarity (Red to +, Black to -). If issues persist, the fan may be faulty.
Fan is noisy	Dust accumulation, obstructed blades, loose mounting.	Clean fan blades. Ensure no cables or objects are hitting the blades. Tighten mounting screws.
Low airflow	Obstruction, incorrect orientation.	Remove any obstructions. Ensure fan is oriented for optimal airflow (check arrow on side).

9. WARRANTY

The Wathai 120x120x25mm 24V 2Pin 2000RPM Case Fan comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects. It does not cover damage resulting from improper installation, misuse, unauthorized modifications, or normal wear and tear. For warranty claims, please contact customer support with your proof of purchase. Returns are accepted within 30 days of purchase for refund or replacement, subject to the seller's return policy.

10. SUPPORT

For further assistance, technical support, or inquiries regarding your Wathai product, please visit the official Wathai store or contact their customer service.
Wathai Store: [Visit the Wathai Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question