

Wathai 9225B12V2P2.5

Wathai 9225 92mm x 25mm 12V DC Brushless Computer Case Fan Instruction Manual

Model: 9225B12V2P2.5 | Brand: Wathai

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Wathai 9225 92mm x 25mm 12V DC Brushless Computer Case Fan. Please read these instructions carefully before use to ensure safe and efficient performance.

2. SAFETY INFORMATION

- Ensure the power source matches the fan's rated voltage (12V DC).
- Disconnect power before installation, maintenance, or troubleshooting.
- Avoid touching moving fan blades.
- Keep the fan away from water and excessive moisture.
- Do not obstruct the fan's airflow.
- Handle with care to prevent damage to the fan blades or wiring.

3. PRODUCT FEATURES

- **Dimensions:** 92mm(L) x 92mm(W) x 25mm(H) / 3.62x3.62x0.98 inches.
- **Voltage:** 12V DC.
- **Current:** 0.16A.
- **Speed:** 2500 RPM.
- **Airflow:** 54.8 CFM.
- **Noise Level:** 31 dBA.
- **Connector:** XH2.54-2Pin.
- **Bearing Type:** Dual Ball Bearing, offering a lifespan of 50,000 hours.

- Designed for versatile mounting (flat or upright).

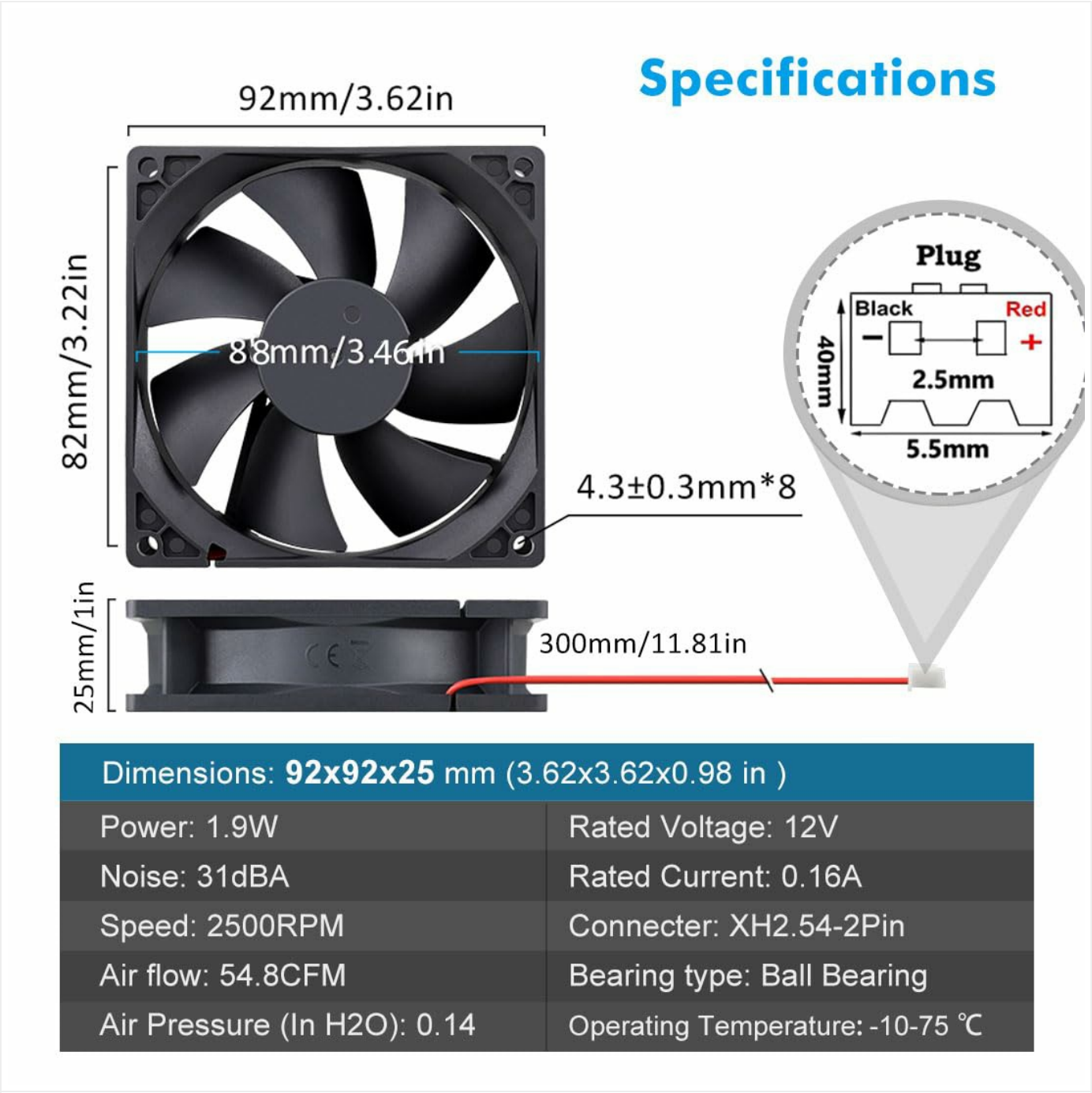


Figure 1: Detailed dimensions and electrical specifications of the Wathai 9225 fan.

Dual ball bearing

Dual-ball bearings rated at up to **50,000** hours allows the fans to be mounted flat or upright.



0.14 In H₂O
Air Pressure

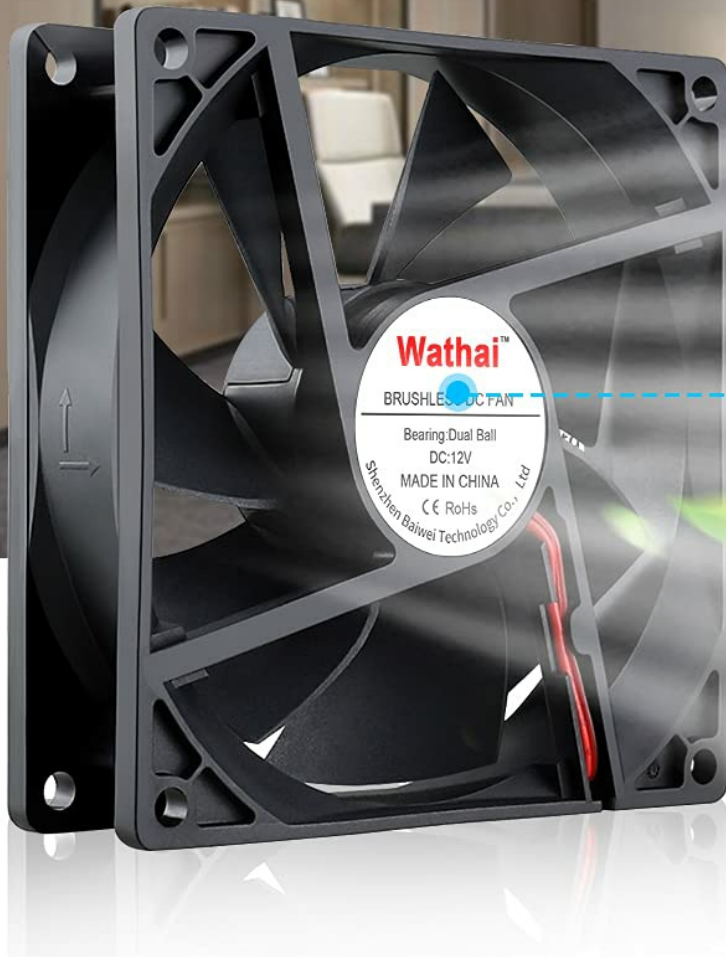


Figure 2: Illustration of the dual ball bearing design, contributing to extended fan lifespan.

4. SPECIFICATIONS

Attribute	Value
Product Dimensions	3.62"L x 3.62"W x 1"H (92mm x 92mm x 25mm)
Brand	Wathai
Power Connector Type	2-Pin (XH2.54)
Voltage	12 Volts (DC)
Wattage	2 watts
Cooling Method	Fan Cooling

Attribute	Value
Noise Level	31 Decibels
Material	Plastic
Maximum Rotational Speed	2500 RPM
Air Flow Capacity	54.8 Cubic Feet Per Minute (CFM)
Bearing Type	Dual Ball Bearing
Cable Length	30cm (12 inches)

5. SETUP AND INSTALLATION

This section outlines the general steps for installing the Wathai 9225 fan. Specific installation may vary depending on your application.

- Power Disconnection:** Before beginning, ensure that the power to the device or system where the fan will be installed is completely disconnected.
- Mounting Location:** Identify a suitable mounting location for the fan. The fan can be mounted flat or upright. Ensure there is adequate space for airflow.
- Orientation:** Observe the airflow direction indicated by arrows on the fan frame (if present) to ensure proper cooling or exhaust.
- Secure Mounting:** Use appropriate screws or mounting hardware to securely attach the fan to the desired surface. The fan dimensions are 92mm x 92mm x 25mm.
- Electrical Connection:** Connect the fan's 2-pin XH2.54 connector to a compatible 12V DC power source. Ensure correct polarity (red wire to positive, black wire to negative). If the existing connector is incompatible, the fan's wires can be modified by a qualified technician.
- Cable Management:** Route the fan cable safely, ensuring it does not interfere with other components or moving parts.
- Power Restoration:** Once the fan is securely installed and connected, restore power to the system.
- Functionality Test:** Verify that the fan operates correctly and provides the intended airflow.

Air outlet diagram

Fan can sit vertical on three sides. Allows the fans to be laid flat or stand upright.



Figure 3: Airflow direction diagram for proper fan installation.

Video 1: A short demonstration of fan installation and connection in a cooling application. This video shows the fan being placed and connected to a circuit board.

6. OPERATING INSTRUCTIONS

The Wathai 9225 fan operates upon receiving a stable 12V DC power supply. It is designed for continuous operation.

- Ensure the fan is connected to a compatible 12V DC power source.
- Once powered, the fan will begin to rotate, providing airflow.
- Monitor the fan for any unusual noises or vibrations during initial operation.

7. MAINTENANCE

Regular maintenance helps ensure 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. Do not use liquids or harsh chemicals.
- **Inspection:** Check for any loose connections or damaged wiring. Ensure mounting screws remain tight.
- **Bearing Longevity:** The dual ball bearings are designed for long life and typically do not require lubrication.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fan does not spin.	No power, incorrect wiring, faulty fan.	Check power supply. Verify correct polarity (red to +, black to -). Inspect wiring for damage. If issues persist, the fan may be faulty.
Fan is noisy or vibrates excessively.	Dust accumulation, loose mounting, damaged blades/bearings.	Clean fan blades. Tighten mounting screws. Inspect blades for damage. If noise persists, bearings may be worn.
Insufficient airflow.	Obstructed airflow, incorrect fan orientation, fan operating below rated speed.	Clear any obstructions. Verify fan is oriented correctly for desired airflow (inlet/outlet). Ensure stable 12V DC power supply.

9. APPLICATIONS

The Wathai 9225 fan is suitable for various cooling and ventilation projects due to its compact size and 12V DC operation.

- Small solar panel cooling systems.
- Computer case ventilation.
- Dehumidifiers and TV refrigerators.
- Space heaters and grow tents.
- Wine coolers and electric boats.
- Portable dryers and other audio/video electronics.
- Replacing OEM fans in travel trailers or RV refrigerators.
- DIY cooling projects.

Applications

Perfect for small solar panel, RV refer, drive tower,dehumidifier TV refrigerator, space heater, grow tent, wine cooler, electric boat , portable dryer and other audio video electronics.



Hard Cooler



Drive tower



Grow tent



Portable dryer



Small solar panel

Figure 4: Examples of common applications for the Wathai 9225 fan.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the seller's policy on the purchase platform or contact Wathai customer service directly. Keep your purchase receipt for warranty claims.

Wathai products are designed and manufactured with quality in mind. All products have passed CE & ROHS certification.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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