

## Ning Xiang 4414F/2

# Ning Xiang Inverter Cooling Fan User Manual

Model: 4414F/2 | Brand: Ning Xiang

## 1. INTRODUCTION

Thank you for choosing the Ning Xiang DC24V 0.21A 4414F/2 Inverter Cooling Fan. This fan is designed for efficient cooling in various industrial and electronic applications, operating on a 24V DC power supply. This manual provides essential information for proper installation, safe operation, and maintenance to ensure the fan's optimal performance and longevity.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the fan. Failure to follow these instructions may result in electric shock, fire, or damage to the product.

- **Electrical Safety:** Ensure the power supply matches the fan's specifications (DC 24V). Disconnect power before installation, maintenance, or troubleshooting.
- **Wiring:** Connect wires correctly according to polarity. Incorrect wiring can damage the fan or power supply.
- **Handling:** Avoid touching the fan blades when the fan is operating or connected to power. Keep fingers and foreign objects away from moving parts.
- **Environment:** Do not expose the fan to excessive moisture, dust, or extreme temperatures outside its operating range.
- **Mounting:** Securely mount the fan to prevent vibration and ensure stable operation.

## 3. PRODUCT OVERVIEW

The Ning Xiang 4414F/2 cooling fan is a compact and efficient solution for thermal management. It features a durable plastic frame and blades, designed for reliable airflow. The fan is equipped with a 2-wire connection for straightforward integration into DC 24V systems.



Figure 3.1: Front view of the 4414F/2 fan, highlighting the specification label.



Figure 3.2: Angled view of the fan, illustrating the 2-wire connection.

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of your cooling fan:

1. **Prepare Mounting Location:** Identify a suitable flat surface for mounting, ensuring adequate space for airflow and access. The fan features four mounting holes at its corners.
2. **Secure the Fan:** Use appropriate screws (not included) to securely fasten the fan to the mounting surface through the four corner holes. Ensure the fan is stable and does not vibrate excessively.
3. **Wiring Connection:**
  - Identify the positive (+) and negative (-) terminals of your DC 24V power supply.
  - Connect the **red wire** from the fan to the **positive (+)** terminal of the power supply.
  - Connect the **blue wire** from the fan to the **negative (-)** terminal of the power supply.
  - Ensure all connections are secure and insulated to prevent short circuits.
4. **Verify Installation:** Double-check all connections and mounting security before applying power.

## 5. OPERATION

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Once properly installed and connected to a DC 24V power source, the fan will begin to operate, providing

cooling airflow. The fan is designed for continuous operation within its specified voltage and current limits.

- **Power On:** Apply DC 24V power to the connected wires. The fan blades should start rotating.
- **Airflow Direction:** Note the direction of airflow. Typically, the air flows from the side with the label towards the opposite side.
- **Continuous Use:** The fan is engineered for reliable performance in continuous operation.

## 6. MAINTENANCE

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Regular maintenance helps ensure the longevity and efficiency of your cooling fan.

- **Cleaning:** Periodically disconnect power and gently clean the fan blades and frame using a soft brush or compressed air to remove dust and debris. Accumulation of dust can reduce airflow and efficiency.
- **Inspection:** Regularly inspect the fan for any signs of damage, loose connections, or unusual noise during operation.
- **Lubrication:** This fan typically uses sealed bearings and does not require user lubrication. Do not attempt to lubricate the fan unless specifically instructed by the manufacturer.

## 7. TROUBLESHOOTING

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If you encounter issues with your fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not spin	No power; Incorrect wiring; Fan motor failure	Check power supply; Verify wiring polarity; Replace fan if motor is faulty
Fan is noisy or vibrates excessively	Loose mounting; Obstruction in blades; Worn bearings	Tighten mounting screws; Remove obstructions; Replace fan if bearings are worn
Reduced airflow	Dust accumulation on blades; Obstruction at inlet/outlet	Clean fan blades and grille; Clear any obstructions

## 8. SPECIFICATIONS

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Detailed technical specifications for the Ning Xiang 4414F/2 Inverter Cooling Fan:

- **Model:** 4414F/2
- **Voltage:** DC 24V
- **Current:** 0.21A
- **Power:** 5.0W
- **Size:** 120x120x25mm (12cm)
- **Wiring:** 2-wire connection
- **Manufacturer:** Ning Xiang
- **ASIN:** B0BYC8PD7W
- **UPC:** 720721447600

## 9. WHAT'S IN THE BOX

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The product package includes:

- 1 x Ning Xiang DC24V 0.21A 4414F/2 5.0W 12025 12cm 2-Wire Inverter Cooling Fan
- No other accessories are included.

## **10. WARRANTY AND SUPPORT**

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For warranty information or technical support, please contact the seller or the manufacturer, Ning Xiang, directly through your purchase platform. Please have your product model (4414F/2) and ASIN (B0BYC8PD7W) available when contacting support.