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› AC230V 62/83W A2E250-AE65-02 2550/2750RPM M2E068-DF 4-Wire Inverter Cooling Fan

Ning Xiang A2E250-AE65-02 / M2E068-DF

User Manual for AC230V 62/83W A2E250-AE65-02 2550/2750RPM M2E068-DF 4-Wire Inverter Cooling Fan

Model: A2E250-AE65-02 / M2E068-DF

Brand: Ning Xiang

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient operation of the Ning Xiang AC230V 62/83W A2E250-AE65-02 / M2E068-DF 4-Wire Inverter Cooling Fan. This industrial-grade fan is designed for cooling applications requiring high performance and reliability.

Key features include its AC230V power requirement, 62/83W power consumption, and operating speeds of 2550/2750 RPM. The fan is equipped with a 4-wire connection for inverter control.



Figure 1: Top view of the AC230V Inverter Cooling Fan.

2. SAFETY INFORMATION

Read all safety warnings and instructions carefully before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Hazard:** Ensure power is disconnected before installation, maintenance, or troubleshooting. Only qualified personnel should perform electrical connections.
- **Rotating Parts:** Keep hands, tools, and loose clothing away from the fan blades during operation. The blades rotate at high speeds and can cause severe injury.
- **Voltage Compatibility:** Verify that the power supply voltage matches the fan's rated voltage (AC230V).
- **Proper Grounding:** Ensure the fan is properly grounded to prevent electrical shock.

- **Environmental Conditions:** Do not expose the fan to excessive moisture, dust, or corrosive environments unless specifically designed for such conditions.

3. SETUP AND INSTALLATION

Proper installation is crucial for the fan's performance and longevity. Follow these steps carefully:

1. **Unpacking:** Carefully remove the fan from its packaging. Inspect for any visible damage.
2. **Mounting:** Securely mount the fan using appropriate fasteners to a stable surface. Ensure there is adequate clearance around the fan for proper airflow.
3. **Wiring:** Connect the 4-wire inverter cooling fan to the power supply and control system. Refer to the wiring diagram on the product label for correct connections. The wires are typically color-coded for phase, neutral, ground, and control signals.



Figure 2: Close-up of the fan's wiring and specification label.

4. **Pre-Operation Check:** Before applying power, double-check all connections to ensure they are secure and correct.

4. OPERATING INSTRUCTIONS

Once installed and wired correctly, the fan can be operated via its connected inverter control system.

- **Power On:** Apply AC230V power to the fan through the inverter. The fan should begin to rotate.
- **Speed Control:** Adjust the fan speed using the inverter's controls. The fan is rated for 2550/2750 RPM.
- **Monitoring:** Observe the fan during initial operation for any unusual noises, vibrations, or signs of malfunction.
- **Power Off:** To stop the fan, disconnect power via the inverter or main power switch.



Figure 3: Bottom view of the fan, illustrating mounting points.

5. MAINTENANCE

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

- **Cleaning:** Periodically clean the fan blades and housing to remove dust and debris. Use a soft cloth or brush. **Always disconnect power before cleaning.**
- **Inspection:** Regularly inspect the fan for any signs of wear, damage, or loose connections. Check the blades for cracks or chips.
- **Lubrication:** This fan is typically designed with sealed bearings that do not require lubrication. Refer to the manufacturer's specifications for specific lubrication requirements if any.
- **Wiring Check:** Ensure all electrical connections remain tight and free from corrosion.



Figure 4: Detailed view of the fan's motor hub.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Fan does not start	No power supply; Incorrect wiring; Faulty inverter; Motor failure.	Check power connection; Verify wiring against diagram; Test inverter; Consult qualified technician for motor issues.
Unusual noise or vibration	Loose mounting; Debris in fan blades; Worn bearings; Imbalanced blades.	Tighten mounting bolts; Clean blades; Inspect bearings (replace if worn); Check for blade damage.
Reduced airflow	Blocked intake/exhaust; Dirty blades; Incorrect fan speed setting.	Clear obstructions; Clean blades; Adjust inverter speed setting.

If the problem persists after attempting these solutions, contact a qualified technician or the product supplier for assistance.

7. SPECIFICATIONS

Attribute	Value
Model Numbers	A2E250-AE65-02, M2E068-DF
Voltage	AC230V
Power Consumption	62/83W

Attribute	Value
Rotational Speed	2550/2750 RPM
Wiring	4-Wire (for inverter control)
Manufacturer	Ning Xiang
ASIN	B0C3BZP4M3
UPC	720721188138



Figure 5: Side profile of the cooling fan.

8. WHAT'S IN THE BOX

The product package includes:

- 1 x AC230V 62/83W A2E250-AE65-02 / M2E068-DF 4-Wire Inverter Cooling Fan

No other accessories are included unless explicitly stated by the seller at the time of purchase.

9. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the seller's policies or contact the seller directly through the platform where the product was purchased. Protection plans may be available for purchase separately, offering extended coverage.