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Sunon MF35101VI-10000-A99

Sunon 12V DC Brushless Fan User Manual

Model: MF35101VI-10000-A99

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Sunon 12V DC Brushless Fan. Designed for various applications requiring efficient air movement, this fan offers reliable performance with its compact size and low power consumption. Please read this manual thoroughly before installation and use.

2. Safety Information

To ensure safe operation and prevent damage, observe the following safety precautions:

- **Power Supply:** Ensure the power supply matches the fan's specified voltage (12V DC). Incorrect voltage can damage the fan.
- **Polarity:** Connect the power leads with correct polarity (red for positive, black for negative). Reverse polarity can cause damage.
- **Handling:** Avoid touching the fan blades while the fan is operating or connected to power.
- **Ventilation:** Ensure adequate clearance around the fan for proper airflow and heat dissipation.
- **Environment:** Do not expose the fan to excessive moisture, dust, or extreme temperatures outside its operating range.
- **Installation:** Securely mount the fan to prevent vibration and ensure stable operation.

3. Product Overview

The Sunon MF35101VI-10000-A99 is a compact 35x35x10mm DC brushless fan designed for efficient cooling in various electronic devices and systems. It features Vapo bearings for enhanced durability and quiet operation.



Figure 3.1: Front view of the Sunon 12V DC Brushless Fan, highlighting its compact design and central hub with product details.

Key Features:

- Compact Size: 35mm x 35mm x 10mm
- Low Power Consumption: 0.72W
- High Airflow: 7.2 CFM
- High Speed: 9500 RPM
- Quiet Operation: 28 dBA Noise Level
- Durable Vapo Bearings
- Standard 5.5" Leads for Connection
- Agency Approvals: UL/CUR/TUV/CE

4. Setup Instructions

Follow these steps for proper installation of your fan:

1. **Prepare Mounting Location:** Identify a suitable location within your system or enclosure that allows for optimal airflow and has appropriate mounting points for a 35x35mm fan.
2. **Mount the Fan:** Secure the fan using appropriate screws or fasteners through the mounting holes on its corners. Ensure the fan is firmly attached to prevent vibration.
3. **Connect Power:** Connect the fan's 5.5" leads to a stable 12V DC power source. The red wire is positive (+), and the black wire is negative (-). Ensure correct polarity.
4. **Verify Airflow Direction:** Most fans have an arrow indicating the direction of airflow on their side. Position the fan to achieve the desired airflow (e.g., intake or exhaust).
5. **Cable Management:** Route the power leads neatly and securely to prevent interference with moving parts or other components.

5. Operating Guidelines

Once installed and connected to a 12V DC power source, the fan will begin operating. No further user interaction is typically required for basic operation.

- **Continuous Operation:** This fan is designed for continuous operation within its specified voltage and temperature ranges.
- **Monitoring:** Periodically check the fan's operation to ensure it is spinning freely and providing adequate

airflow.

- **Power Cycling:** To turn the fan off, disconnect its power supply. Reconnect to resume operation.

6. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your fan.

- **Dust Removal:** Periodically clean dust accumulation from the fan blades and housing using compressed air or a soft brush. Ensure the fan is powered off before cleaning.
- **Inspection:** Inspect the fan for any signs of damage, loose connections, or unusual noise.
- **Avoid Lubrication:** The Vapo bearings are designed for maintenance-free operation and do not require lubrication.

7. Troubleshooting

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Fan does not spin	No power, incorrect voltage, incorrect polarity, damaged wiring, fan obstruction.	Check power supply, verify voltage (12V DC), ensure correct red/black wire connection, inspect wiring for damage, remove any obstructions from blades.
Fan spins slowly or with reduced airflow	Insufficient voltage, dust accumulation, partial obstruction.	Verify 12V DC power supply, clean fan blades and housing, check for partial obstructions.
Excessive noise or vibration	Loose mounting, foreign object, worn bearings (unlikely for new fan).	Ensure fan is securely mounted, check for and remove any foreign objects, if noise persists and fan is old, consider replacement.

8. Technical Specifications

Parameter	Value
Manufacturer	Sunon
Model Number	MF35101VI-10000-A99
Voltage	12 VDC
Current	60 mA
Power Consumption	0.72 W
Dimensions (L x W x H)	35mm x 35mm x 10mm (1.38"L x 0.39"W x 1.38"H)
Bearing Type	Vapo
Air Flow	7.2 CFM

Parameter	Value
Speed	9500 RPM
Noise Level	28 dBA
Weight	10.5 grams (0.35 ounces)
Connection	5.5" Leads
Agency Approvals	UL/CUR/TUV/CE

9. Warranty and Support

Sunon products are manufactured to high quality standards. For specific warranty information regarding your fan, please refer to the documentation provided at the time of purchase or contact your retailer.
For technical support or inquiries, please visit the official Sunon website or contact their customer service department. When contacting support, please have your model number (MF35101VI-10000-A99) and purchase details ready.

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