

Shrandi FD125015LL

Shrandi Y.S. TECH FD125015LL 12V Silent Double Ball Cooling Fan User Manual

Model: **FD125015LL** | Brand: **Shrandi**

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Shrandi Y.S. TECH FD125015LL 12V Silent Double Ball Cooling Fan. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

2. PRODUCT FEATURES

- **High-Performance Cooling:** Operates at 12V with a current of 0.11A, providing efficient cooling for various electronic devices.
- **Compact Size:** Measures 50 x 50 x 15mm, making it suitable for installations in confined spaces within computers, gaming consoles, and other electronics.
- **Silent Operation:** Engineered with double ball bearings to ensure quiet performance, minimizing disruptive noise during operation.
- **Reliable Construction:** Each fan undergoes testing to ensure optimal performance and durability.
- **Versatile Compatibility:** Designed for a wide range of applications, including computer cooling, printers, and various electronic projects. Verify model and dimensions for compatibility before purchase.

3. SETUP AND INSTALLATION

Proper installation is crucial for the fan's performance and safety. Always ensure the power source is disconnected before beginning installation.

1. **Verify Compatibility:** Confirm that the fan's dimensions (50x50x15mm) and voltage (12V) match the

requirements of your application.

2. **Mounting Location:** Identify a suitable mounting location that allows for adequate airflow and secure attachment.
3. **Secure Mounting:** Use appropriate screws or mounting hardware to firmly attach the fan to the desired surface. Ensure the fan blades are not obstructed.
4. **Wiring Connection:** Connect the fan's power wires to a compatible 12V DC power source. Observe correct polarity (typically red for positive, black for negative). Incorrect wiring can damage the fan or the power source.
5. **Test Operation:** After securing and connecting, briefly apply power to test the fan's operation. Ensure it spins freely and quietly.



Figure 3.1: Front view of the FD125015LL fan, displaying its label and wiring.



Figure 3.2: Side profile of the FD125015LL fan, illustrating its compact design.

4. OPERATING INSTRUCTIONS

Once properly installed and connected to a 12V DC power source, the Shrandi Y.S. TECH FD125015LL fan will begin operation. It is designed for continuous use within its specified voltage and current parameters.

- **Power On:** Apply 12V DC power to the fan.
- **Monitoring:** Periodically check for proper rotation and listen for any unusual noises. The fan is designed for silent operation.
- **Environmental Conditions:** Operate the fan within recommended temperature and humidity ranges for electronic components to ensure optimal lifespan.



Figure 4.1: Angled view of the FD125015LL fan in operation.

5. MAINTENANCE

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

- **Cleaning:** Periodically inspect the fan blades and housing for dust accumulation. Use a soft brush or compressed air to gently remove dust. Ensure power is disconnected before cleaning.
- **Inspection:** Check for any signs of wear, damage to the blades, or loose connections.
- **Lubrication:** This fan features double ball bearings, which are typically sealed and do not require user lubrication.



Figure 5.1: Rear view of the FD125015LL fan, showing the motor and mounting points.



Figure 5.2: Alternate rear view of the FD125015LL fan.

6. TROUBLESHOOTING

If you encounter issues with your fan, refer to the following common troubleshooting steps:

- **Fan Not Spinning:**
 - Check power connection: Ensure the fan is securely connected to a 12V DC power source and that the power source is active.
 - Verify polarity: Confirm that the positive and negative wires are connected correctly.
 - Check for obstructions: Ensure nothing is physically blocking the fan blades from rotating.
- **Unusual Noise:**
 - Inspect for loose mounting: Tighten any loose screws.
 - Check for debris: Remove any dust or foreign objects from the fan blades or housing.
 - Bearing noise: If a persistent grinding or rattling noise occurs, the bearings may be worn. Replacement may be necessary.
- **Insufficient Cooling:**

- Check airflow direction: Ensure the fan is oriented to push or pull air in the desired direction for effective cooling.
- Clear obstructions: Remove any objects blocking the intake or exhaust of the fan.
- Dust accumulation: Clean the fan blades and any associated heatsinks or vents.

7. SPECIFICATIONS

Model	FD125015LL
Brand	Shrandi
Dimensions	50 x 50 x 15 mm
Voltage	12V DC
Current	0.11A
Power	1.32W
Bearing Type	Double Ball Bearing
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	1.76 ounces

8. WARRANTY AND SUPPORT

Specific warranty terms and support contact information are not provided within this manual. For details regarding warranty coverage, technical support, or service, please refer to the documentation included with your purchase or contact the retailer/manufacturer directly.