

Jadeshay XEDDKYBBX-0.4KW

Jadeshay 400W Frequency Inverter

MODEL: XEDDKYBBX-0.4KW INSTRUCTION MANUAL

This manual provides detailed instructions for the safe and efficient operation of your Jadeshay Frequency Inverter.

1. Introduction

The Jadeshay 400W Frequency Inverter is designed for precise motor speed control, converting single-phase 220V input to three-phase 220V output. It is suitable for motors with a rated power below 0.4kW and supports both forward and reverse rotation. This device is commonly used in applications such as conveyor belts, assembly lines, and rotary tables. Please read this manual thoroughly before installation and operation to ensure proper usage and safety.

2. Product Overview and Features

This frequency inverter utilizes advanced vector control technology to provide high-speed regulation accuracy and a wide speed range, optimizing operational efficiency. Key features include:

- **Adaptive Parameters:** Specifically designed for motor speed control, suitable for motors up to 0.4kW.
- **Input/Output:** AC220V single-phase input, AC220V three-phase output.
- **Intuitive Operation:** Equipped with a digital display and menu buttons for clear status monitoring and easy parameter changes.
- **Integrated Design:** Sleek and aesthetic appearance with user-friendly panel operation.
- **Multi-layer Safety Protection:** Includes over-voltage, under-voltage, over-current, overload, and short circuit protection.
- **Efficient Cooling:** Features an independent cooling fan for robust heat dissipation with minimal noise.
- **Low Power Consumption:** Designed for long-term stable operation with energy efficiency.

Variable Frequency Drive

Single-phase 220V input, three-phase 220V output



Protect The Motor

Energy Saving

Frequency

Strong Security

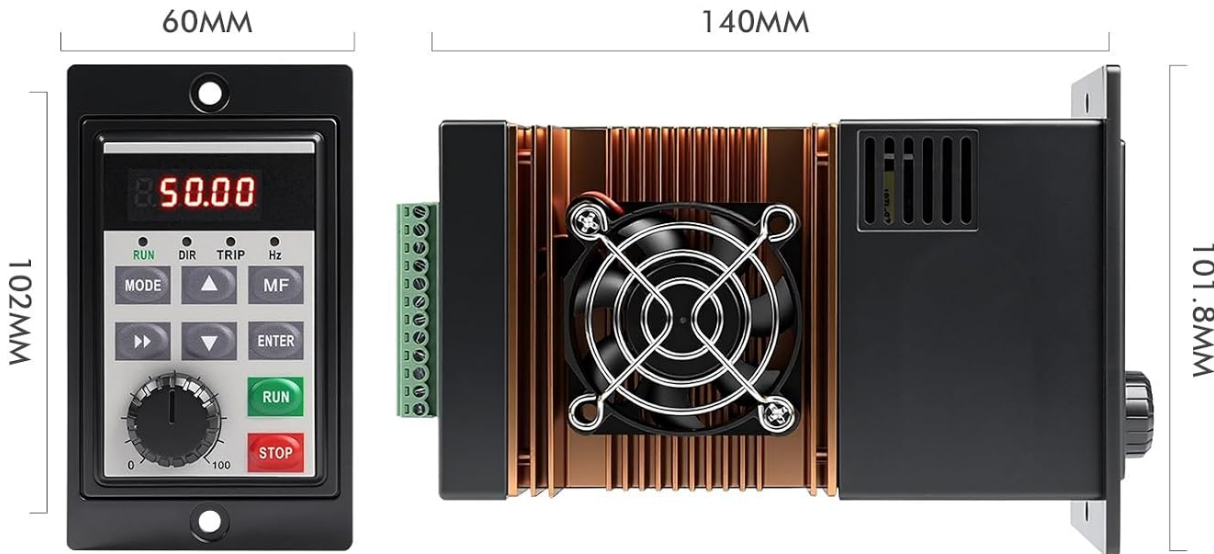
Image: Front view of the Jadeshay 400W Frequency Inverter, showing the control panel and cooling fins.

3. Specifications

Parameter	Value
Model	XEDDKYBBX-0.4KW
Material	ABS plastic flame retardant
Color	Black
Power	0.4 kW
Input Voltage	AC220V Single Phase
Output Voltage	AC220V Three Phase

Rated Current	4.5A
Operating Frequency	0-3200Hz
Control Method	Vector control
Product Dimensions	15.5 x 8 x 5 cm (approximate)
Item Weight	543 Grams

PRODUCT INFORMATION



Material:	ABS Plastic	Input voltage:	Single-Phase AC 220 V
Colour:	Black	Output voltage:	Three-Phase AC 220 V
Power:	0.4 kW	Operating frequency:	0–3200 Hz
Rated current:	4.5A	Control method:	Vector control

Image: Detailed product information including dimensions and key specifications.

4. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Disconnect power before servicing.

The Jadeshay Frequency Inverter is equipped with multiple protection mechanisms to ensure safe operation:

- Overload Protection
- Overcurrent Protection
- Overtemperature Protection
- Overvoltage Protection
- Phase Loss Protection
- Short-circuit Protection

Always ensure proper grounding and adhere to local electrical codes. Do not operate the device if it appears damaged.

MULTI-LAYERED PROTECTION



**Overload
Protection**



**Overcurrent
Protection**



**Overtemperature
Protection**



**Overvoltage
Protection**



**Phase loss
Protection**



**Short-circuit
Protection**



Image: Visual representation of the multi-layered protection features, including overload, overcurrent, overtemperature, overvoltage, phase loss, and short-circuit protection.

5. Installation and Wiring

Proper wiring is crucial for the safe and correct operation of the frequency inverter. Refer to the diagrams below for connection details.

5.1 Basic Wiring Diagram

Connect the single-phase 220V power supply to the L1 and L2 terminals. Connect the three-phase 220V motor to the U, V, and W terminals. Ensure the ground wire is properly connected to the ground terminal.

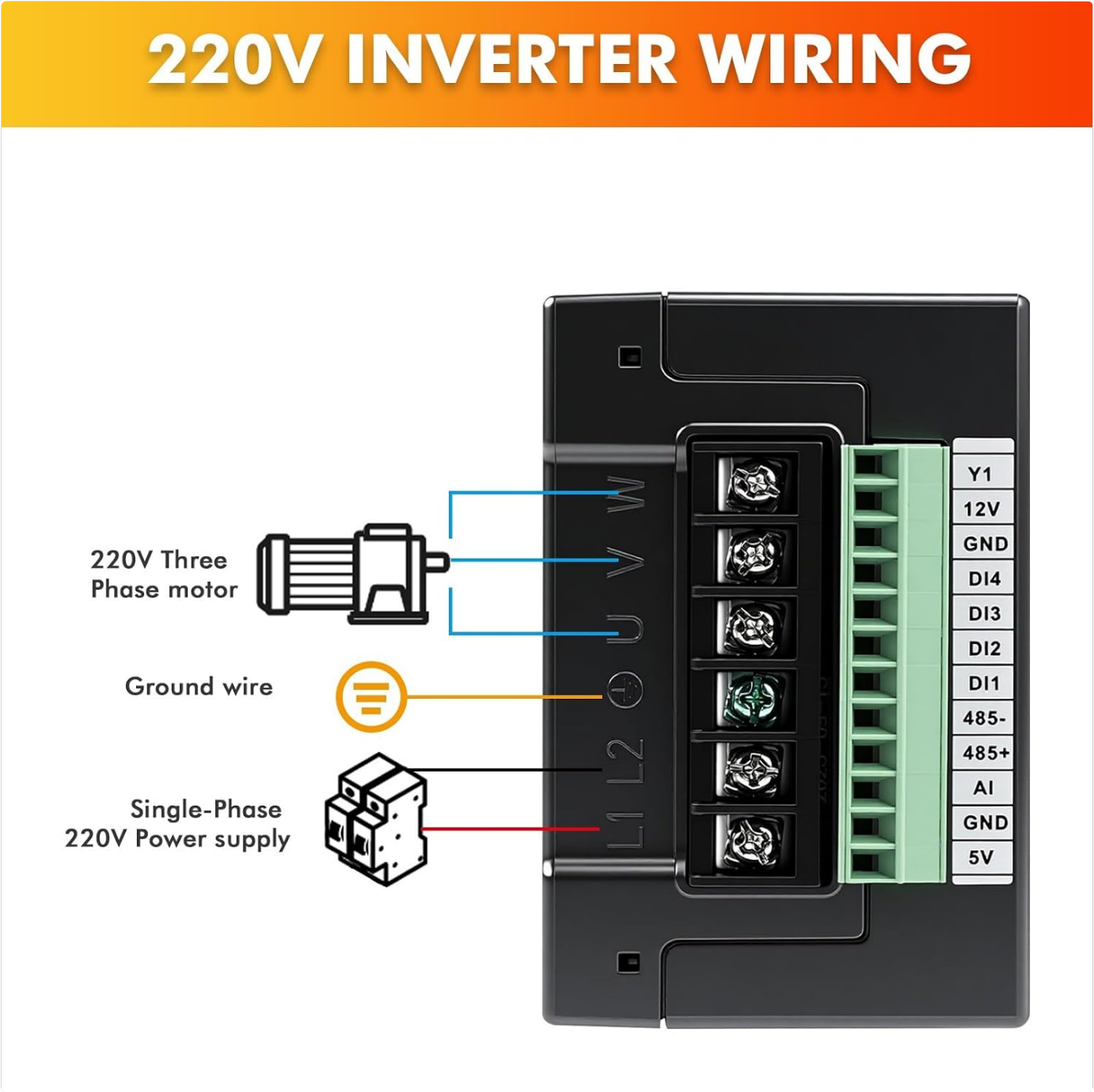


Image: Simplified wiring diagram illustrating connections for a 220V three-phase motor, ground wire, and single-phase 220V power supply to the inverter terminals.

5.2 Detailed Wiring Instructions

For advanced control and external connections, refer to the detailed schematic. This includes multi-function input terminals (DI1-DI4) for functions like Forward/Stop, Reverse/Stop, Fault Reset, and Multi-Speed Command. Analog voltage frequency command (0-10VDC) and RS485 communication terminals are also available.

WIRING INSTRUCTIONS

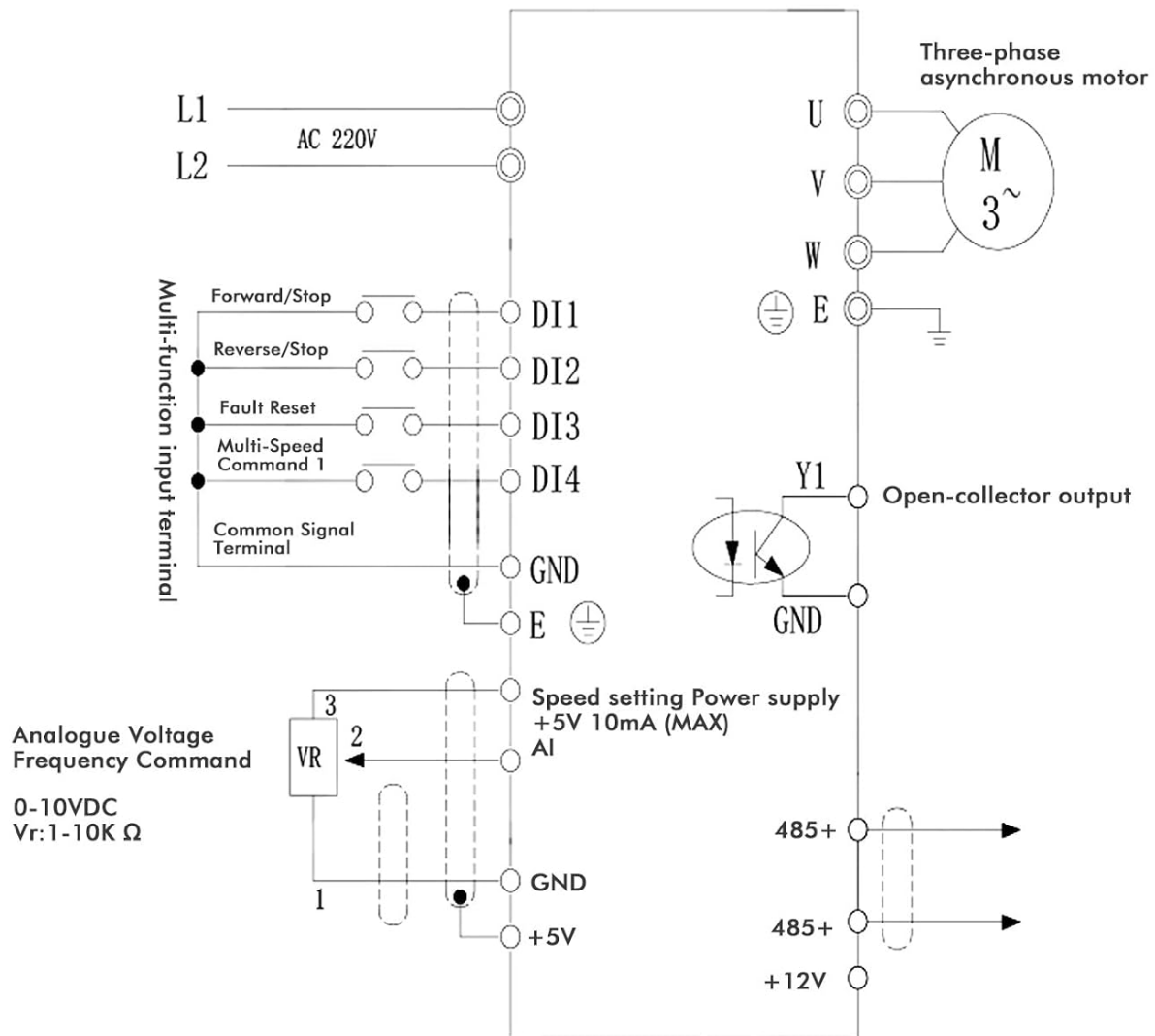


Image: Comprehensive wiring schematic detailing connections for power, motor, multi-function inputs, analog voltage frequency command, and RS485 communication.

6. Operation

The inverter features an intuitive control panel for easy operation and monitoring.

6.1 Control Panel Overview

OPERATION INTERFACE

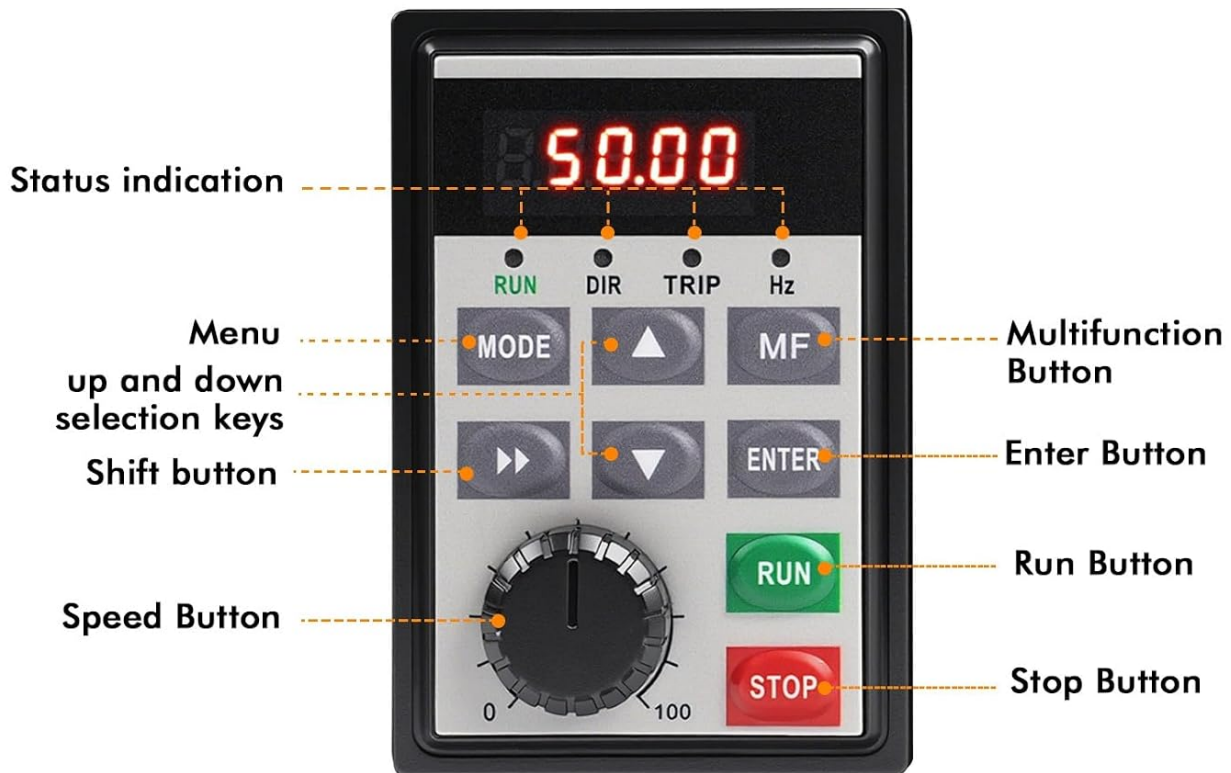


Image: Front panel of the inverter with labels indicating the digital display, status indicators (RUN, DIR, TRIP, Hz), MODE button, Menu up/down selection keys, Shift button, Multifunction button (MF), ENTER button, RUN button, STOP button, and Speed Button (rotary knob).

- **Digital Display:** Shows current operating frequency, voltage, or other parameters.
- **Status Indicators:** LEDs for RUN (running), DIR (direction), TRIP (fault), and Hz (frequency unit).
- **MODE Button:** Used to cycle through display modes or enter menu settings.
- **Up/Down Arrows:** Navigate through menu options or adjust parameter values.
- **Shift Button (Left/Right Arrows):** Used to shift cursor position during parameter editing.
- **MF (Multifunction) Button:** May have programmable functions depending on configuration.
- **ENTER Button:** Confirms selections or saves parameter changes.
- **RUN Button:** Starts the motor.
- **STOP Button:** Stops the motor.
- **Speed Button (Rotary Knob):** Adjusts the output frequency/motor speed.

6.2 Adjusting Motor Speed

The motor speed can be adjusted steplessly from 0-3200Hz using the rotary speed knob on the control panel. Turn the knob clockwise to increase speed and counter-clockwise to decrease speed.

Adjust the speed with just a twist

0-3200Hz stepless speed regulation, bid farewell to the traditional gear limit
Applicable to most motors



Multi-function Display

Real-time display of voltage and current



Button Panel

The operation Panel is versatile and complete



Image: A visual guide showing the rotary knob and its function for stepless speed regulation from 0-3200Hz.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your frequency inverter.

- **Cleaning:** Keep the inverter clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Ventilation:** Ensure that the cooling fan and ventilation openings are not obstructed. Adequate airflow is essential for heat dissipation.
- **Connections:** Periodically check all electrical connections to ensure they are tight and secure. Loose connections can lead to overheating or intermittent operation.
- **Environment:** Operate the inverter within its specified environmental conditions (temperature, humidity) to prevent

damage.

8. Troubleshooting

This section addresses common issues you might encounter. For more complex problems or specific error codes, consult the full product manual or contact technical support.

- **Inverter does not power on:**

- Check the input power supply connection.
- Verify that the input voltage matches the inverter's specification (AC220V single phase).
- Inspect the power cable for damage.

- **Motor does not run:**

- Ensure the RUN button has been pressed.
- Check motor wiring connections (U, V, W terminals).
- Verify that the motor's rated power is within the inverter's capacity (below 0.4kW).
- Check for any fault indicators (TRIP LED) on the display.

- **Abnormal noise or vibration from motor:**

- Check motor and inverter parameters for correct settings.
- Ensure the motor is properly mounted and balanced.

- **Password Reset:**

If a password has been set and forgotten, refer to the comprehensive product manual for specific instructions on how to reset it. This typically involves a specific sequence of button presses or a factory reset procedure that may vary by firmware version.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

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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

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