Gettimore UX-52-100-1.1KW

Gettimore UX-52-100-1.1KW Single-Phase to Three-Phase Inverter

User Manual

Model: UX-52-100-1.1KW | Brand: Gettimore

1. Introduction

This Gettimore UX-52-100-1.1KW inverter is designed to efficiently convert single-phase 220V input into three-phase 220V output, making it suitable for a variety of three-phase motors. It features a powerful and efficient operation with a frequency range of 1.0 to 99 Hz, enabling smooth motor control across diverse applications.

The inverter incorporates enhanced safety features, including protection against overvoltage, short circuits, and overcurrents, ensuring reliable performance even under challenging conditions. An intuitive digital display simplifies monitoring and parameter adjustments for optimal operation, and its flexible input voltage capacity (80-280V) provides exceptional adaptability for various industrial electrical environments.

2. Safety Information

Please read and understand all safety instructions before installing, operating, or maintaining this inverter. Failure to comply with these instructions may result in serious injury or equipment damage.

- **Electrical Hazard:** Always disconnect power before performing any wiring or maintenance. Only qualified personnel should install and service this equipment.
- **Proper Grounding:** Ensure the inverter is properly grounded to prevent electric shock.
- **Environmental Conditions:** Do not expose the inverter to moisture, direct sunlight, corrosive gases, or excessive dust. Operate within specified temperature and humidity ranges.
- **Overload Protection:** Do not exceed the rated load capacity of the inverter.
- **Secure Mounting:** Mount the inverter securely in a well-ventilated area to prevent overheating.

3. Product Overview

The Gettimore UX-52-100-1.1KW inverter features a user-friendly interface with a digital display and intuitive controls for efficient motor speed management.



Figure 3.1: A direct front view of the inverter, highlighting the digital display, control buttons, and speed adjustment knob.



Figure 3.2: An image highlighting the core features of the inverter: programmable motor speed control, high-performance MPU for efficient and reliable operation, and built-in safety protections against overload and over-temperature.

Front Panel Controls:

- **Digital Display:** Shows current operating frequency, parameters, and error codes.
- **P-K SHIFT Button:** Used for shifting between parameter groups or digits during setting.
- **MENU/ESC Button:** Enters/exits menu, confirms settings, or cancels operations.
- **SAVE/LOCK Button:** Saves current settings or locks/unlocks the keypad.
- **FWD/REV Button:** Toggles motor rotation direction (Forward/Reverse).
- **RUN/STOP Button:** Starts or stops the motor operation.
- **Up/Down Arrow Buttons:** Adjusts parameter values or navigates menu options.
- **Speed Control Knob:** Manually adjusts the output frequency/motor speed.

4. Setup

4.1 Mounting

Mount the inverter vertically on a stable, non-flammable surface. Ensure adequate clearance around the unit for proper ventilation and heat dissipation. Avoid mounting in areas with excessive vibration, dust, or direct heat sources.

4.2 Wiring

All wiring should be performed by a qualified electrician in accordance with local electrical codes and regulations. Ensure power is disconnected before making any connections.

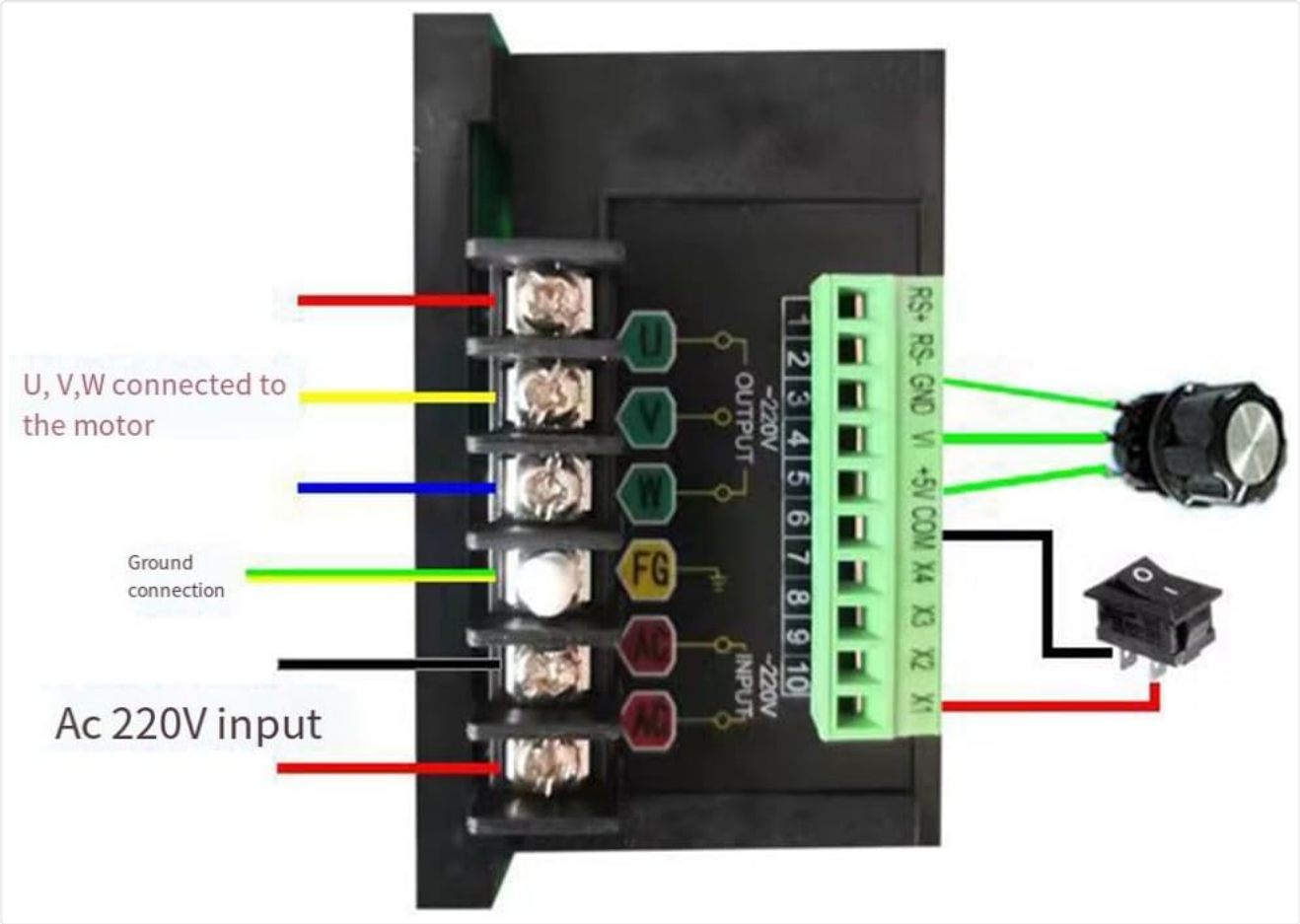


Figure 4.1: Detailed wiring diagram illustrating connections for AC 220V input, U, V, W motor output, ground, and external control signals including a potentiometer and switch.

- **Power Input (AC 220V):** Connect the single-phase 220V AC power supply to the **L** and **N** terminals.
- **Motor Output (U, V, W):** Connect the three-phase motor to the **U**, **V**, and **W** output terminals.
- **Ground Connection (FG):** Connect the ground wire to the **FG** terminal for safety.
- **External Control Terminals:**
  - **Potentiometer:** For external speed control, connect the potentiometer to **VI** (analog input), **+5V** (power supply), and **GND** (ground).
  - **External Switch:** For external run/stop or other control functions, connect a switch between **X1** (or X2, X3, X4) and **COM** (common).

5. Operating Instructions

5.1 Basic Operation

1. **Power On:** Ensure all wiring is correct and secure. Apply single-phase 220V power to the inverter. The digital display will illuminate.
2. **Set Frequency/Speed:** Use the **Speed Control Knob** on the front panel to adjust the desired output frequency. The digital display will show the current frequency setting.
3. **Start Motor:** Press the **RUN** button to start the motor. The motor will accelerate to the set frequency.
4. **Stop Motor:** Press the **STOP** button to stop the motor. The motor will decelerate and stop.
5. **Change Direction:** While the motor is stopped or running, press the **FWD/REV** button to toggle the motor's

rotation direction.

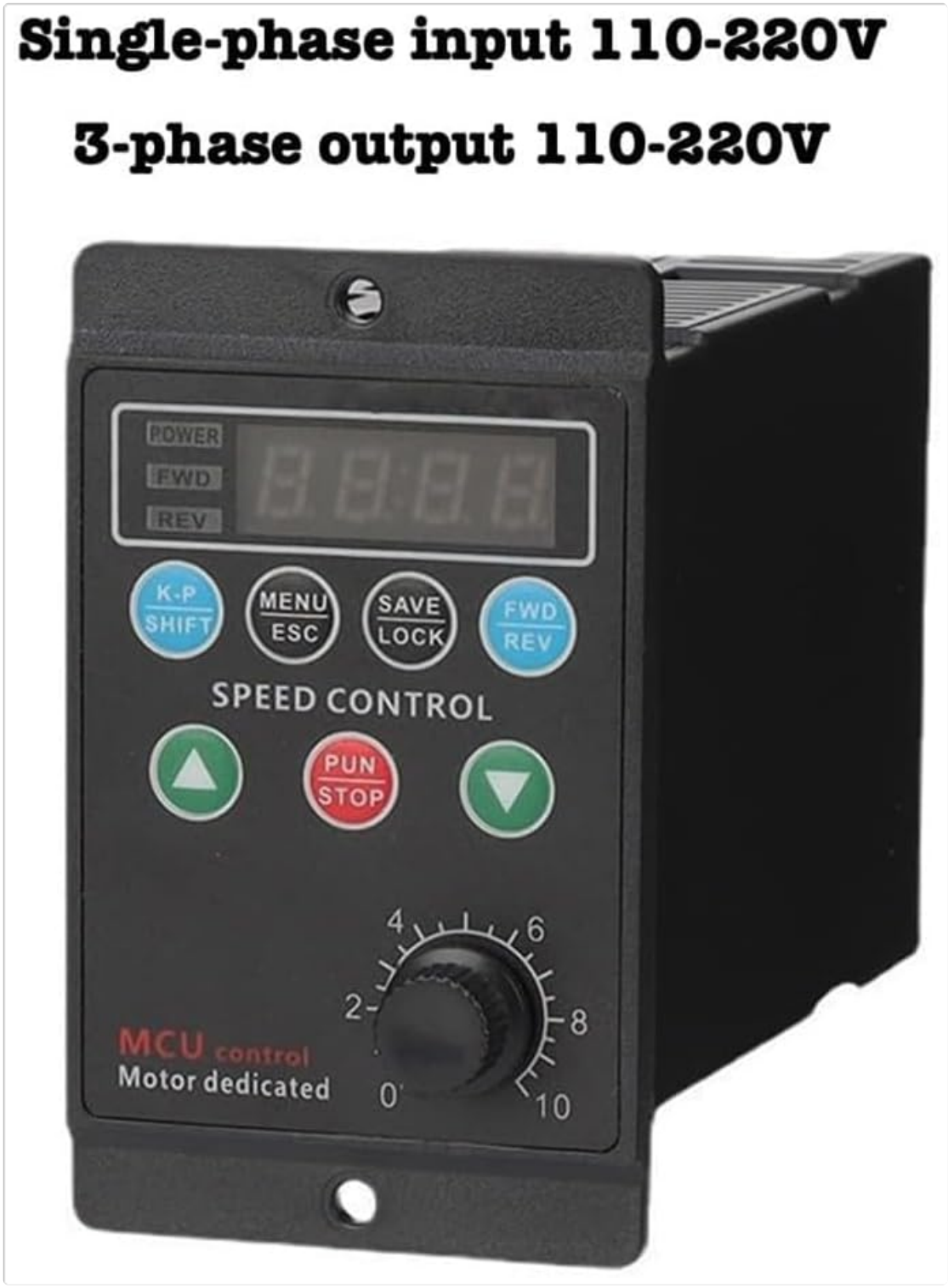


Figure 5.1: Close-up of the inverter's front panel, emphasizing the speed control knob and the 'SPEED CONTROL' label, indicating its primary function.

5.2 Parameter Settings

The inverter allows for advanced configuration through its menu system. Refer to the detailed parameter list in the full product manual (if available) for specific settings.

1. Press **MENU/ESC** to enter the parameter menu.
2. Use the **Up/Down Arrow Buttons** to navigate through parameter groups or individual parameters.
3. Press **MENU/ESC** again to select a parameter for editing.
4. Use **P-K SHIFT** to move between digits if setting a numerical value.
5. Use the **Up/Down Arrow Buttons** to change the parameter value.

6. Press **SAVE/LOCK** to save the new setting.
7. Press **MENU/ESC** to exit the parameter menu.

6. Specifications

Feature	Specification
Model	UX-52-100-1.1KW
Input Voltage	Single-phase 220V (Range: 80-280V AC)
Output Voltage	Three-phase 220V
Rated Power	1100W (1.1KW)
Output Frequency Range	1.0 - 99 Hz
Dimensions (L x W x H)	147 x 60 x 102 mm
Material	ABS
Protection Features	Overvoltage, Short-circuit, Overcurrent

7. Maintenance

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

- **Cleaning:** Periodically clean the inverter's exterior and ventilation openings to prevent dust accumulation, which can lead to overheating. Use a soft, dry cloth. Do not use liquid cleaners.
- **Connection Check:** Regularly inspect all wiring connections to ensure they are tight and free from corrosion. Loose connections can cause poor performance or damage.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity limits.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Inverter does not power on	No input power, loose connections, internal fuse blown	Check power supply, verify all wiring, inspect internal fuse (by qualified personnel only).
Motor does not run	Incorrect wiring, motor overload, parameters not set correctly, STOP button pressed	Verify motor wiring, reduce load, check operating parameters, press RUN button.
Abnormal motor noise	Motor issue, incorrect frequency setting, mechanical problem	Inspect motor, adjust frequency, check motor's mechanical integrity.
Overload/Overcurrent error	Motor drawing too much current, short circuit in motor/wiring	Reduce motor load, check motor and wiring for faults, verify motor parameters.

Problem	Possible Cause	Solution
Inverter overheats	Poor ventilation, excessive ambient temperature, continuous overload	Ensure proper airflow, reduce ambient temperature, operate within rated load.

If the problem persists after attempting these solutions, please contact customer support.

9. Warranty and Support

This Gettimore inverter comes with a standard manufacturer's warranty. For warranty claims, technical assistance, or further support, please contact your retailer or the manufacturer directly. Please have your model number (UX-52-100-1.1KW) and purchase information ready when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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