



Manuals.plus /

› FUZHUI /

› FUZHUI Smart Electricity Meter (Model FUZHUI23qu7h5e4k) - 3 Phase 4 Wire User Manual

FUZHUI FUZHUI23qu7h5e4k

FUZHUI Smart Electricity Meter (Model FUZHUI23qu7h5e4k)

3 Phase 4 Wire Multifunctional Energy Meter User Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your FUZHUI Smart Electricity Meter. This 3 Phase 4 Wire Multifunctional Energy Meter features 4G rail type installation, Tuya App integration for electricity management, high accuracy measurement, and remote monitoring capabilities. Please read this manual thoroughly before use and retain it for future reference.

The FUZHUI Smart Electricity Meter is designed for various applications, including residential, commercial, and industrial settings, enabling precise energy monitoring and management.

Applicable to more scenes

Apartments, neighborhoods, rental houses, commercial streets



Figure 1.1: Applicable scenarios for the FUZHUI Smart Electricity Meter.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Stable and Reliable:** Constructed from high-quality materials and subjected to rigorous testing to ensure long-lasting performance and stability.
- **High Accuracy Measurement:** Utilizes advanced technology to guarantee precise power measurement, minimizing discrepancies.
- **Energy Saving and Cost Control:** Incorporates a pre-payment function to encourage responsible power consumption, leading to energy and cost savings.
- **Multi-Functional Application:** Suitable for both household and commercial use in diverse environments such as residences, offices, and factories.
- **Remote Monitoring:** Features a 4G rail design that enables remote meter reading, facilitating real-time data monitoring and management via the Tuya App.

2.2 Components and Display

The meter features a clear digital display for energy readings and indicators for operational status.

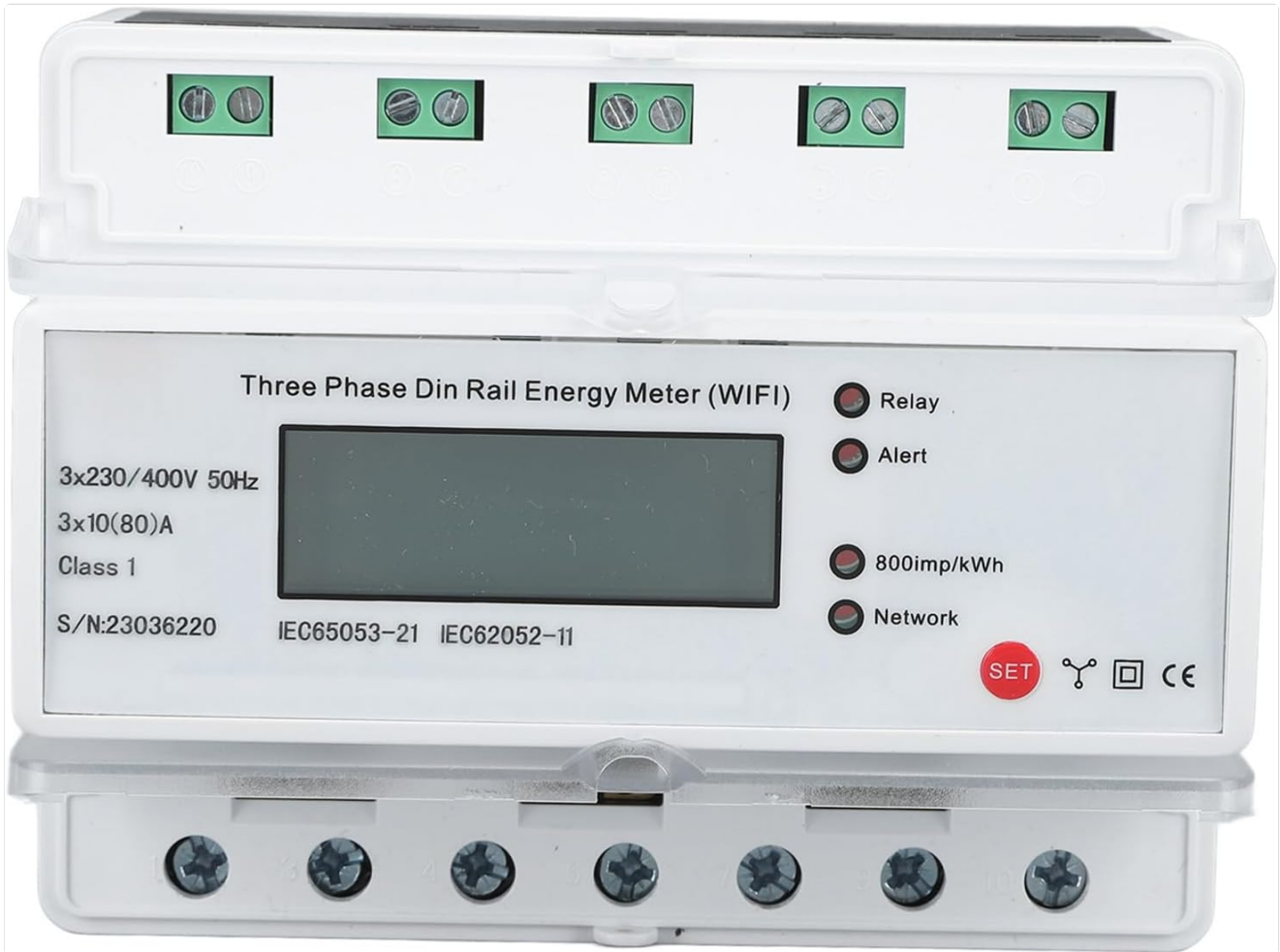


Figure 2.1: Front view of the electricity meter with display and indicators.

The transparent cover helps prevent unauthorized tampering and provides a visual indication if the device has been opened.

No fear of electricity theft

Transparent cover to prevent unauthorized disassembly, it is clear whether it has been disassembled or not

Transparent cover closed effect



Figure 2.2: Transparent cover for tamper prevention.

3. SPECIFICATIONS

Specification	Value
Item Type	Electricity Meter
Weight	628g / 22.15oz (Product only), 1.38 pounds (Package)
Material	ABS
Basic Current	10A
Maximum Current	80A
Pulse Constant	800imp/kWh
Manufacturer	FUZHUI
Model Number	FUZHUI23qu7h5e4k
Package Dimensions	5.51 x 3.94 x 3.54 inches

4. SETUP AND INSTALLATION

4.1 Safety Precautions

- Installation should only be performed by qualified personnel.
- Ensure all power is disconnected before beginning installation.
- Follow all local electrical codes and regulations.
- Wear appropriate personal protective equipment (PPE).

4.2 Mounting the Meter

The FUZHUI Smart Electricity Meter is designed for DIN rail mounting. Securely attach the meter to a standard DIN rail in your electrical panel.



Figure 4.1: Rear view showing DIN rail mounting mechanism.

4.3 Wiring Method

The meter is a 3 Phase 4 Wire type. Carefully follow the wiring diagram below to connect the input and output phases and neutral lines. Ensure all connections are tight and secure.

Wiring Method

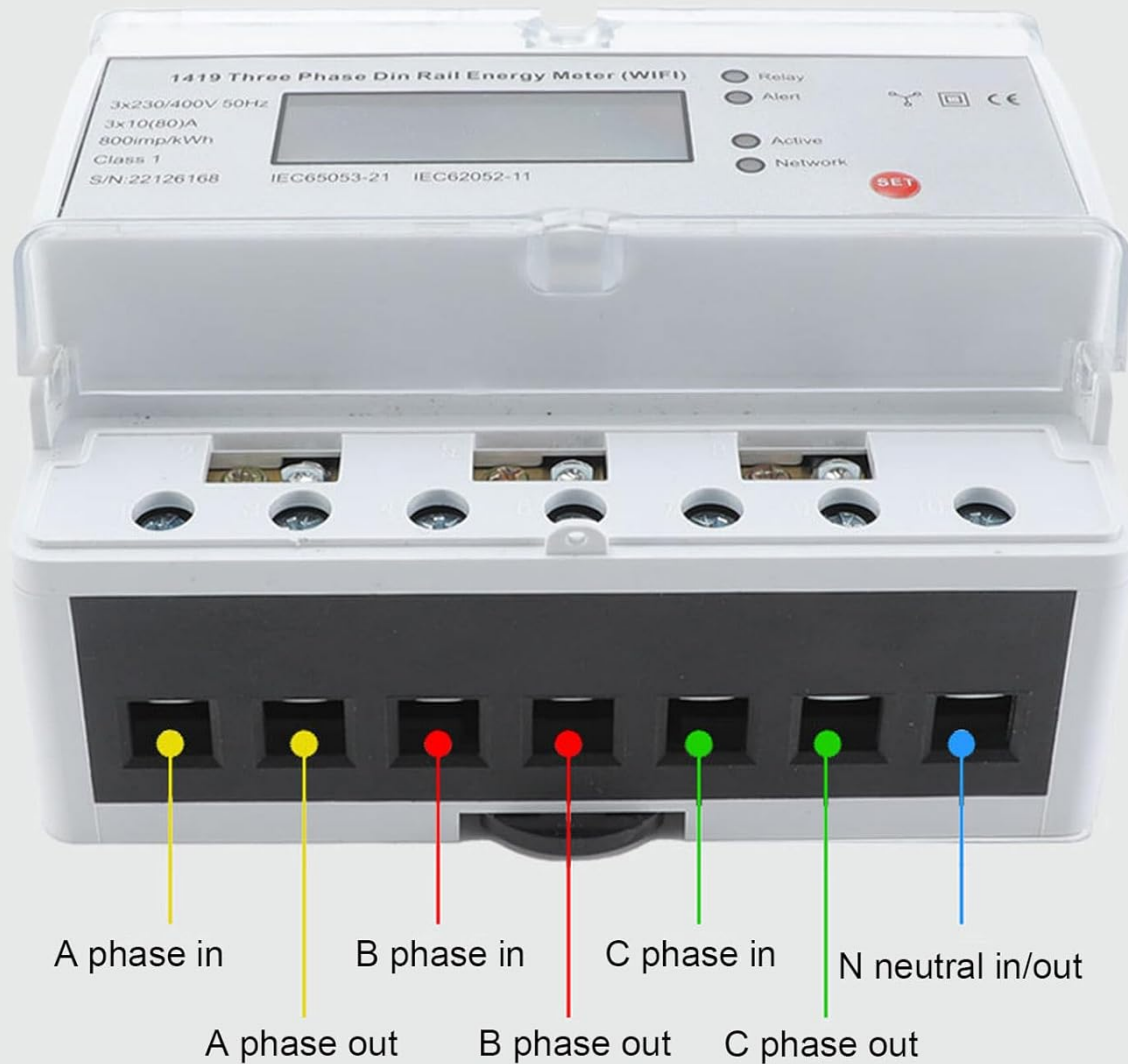


Figure 4.2: Detailed wiring diagram for 3 Phase 4 Wire connection.

1. Connect the 'A phase in' and 'A phase out' wires.
2. Connect the 'B phase in' and 'B phase out' wires.
3. Connect the 'C phase in' and 'C phase out' wires.
4. Connect the 'N neutral in/out' wire.

Double-check all connections before restoring power.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up

Once wired correctly, restore power to the circuit. The meter's display should illuminate, showing the current energy consumption reading. The 'Active' and 'Network' indicators should light up, indicating proper operation and network connectivity.

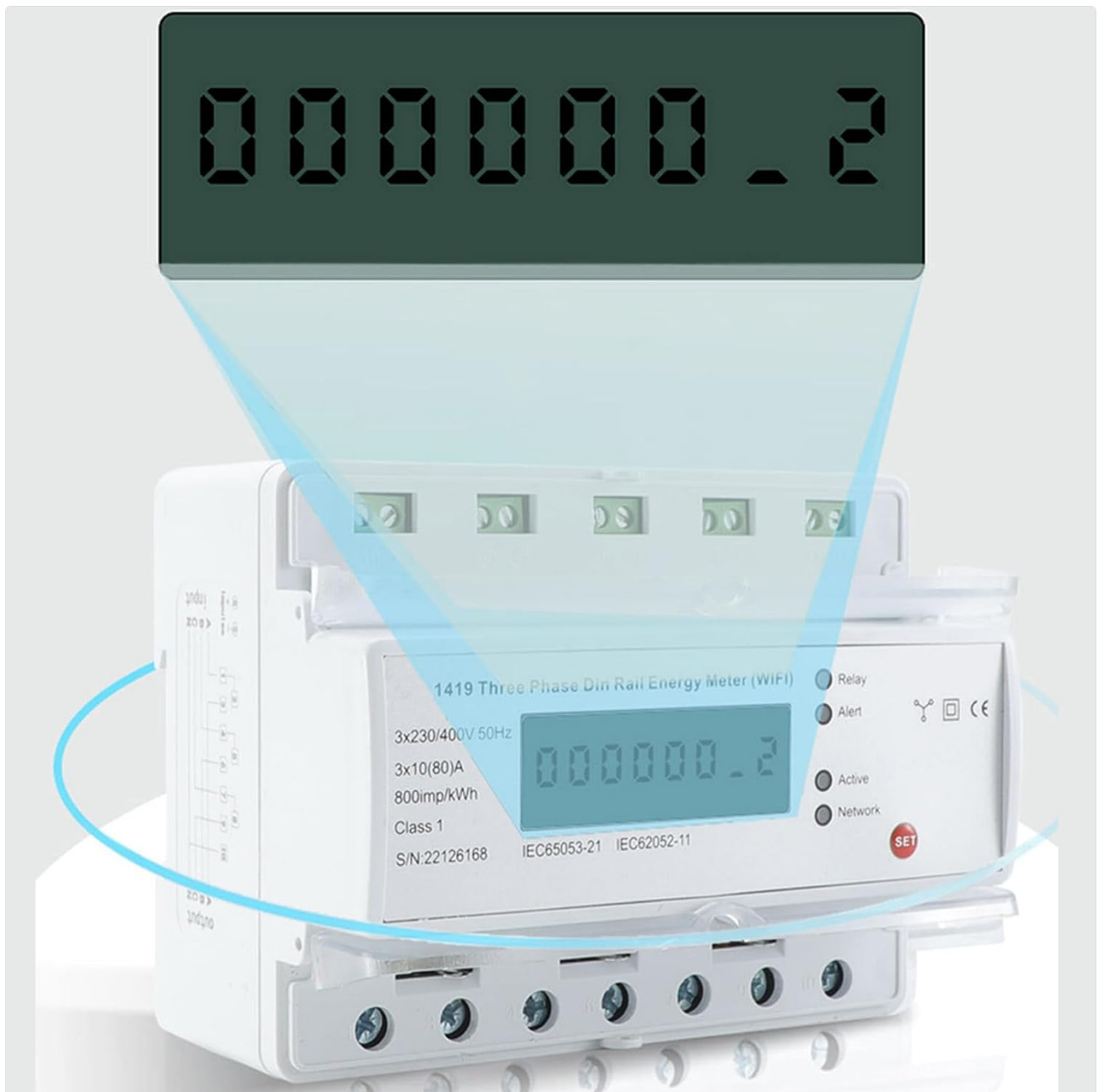


Figure 5.1: Meter display showing energy reading.

5.2 Tuya App Integration and Remote Monitoring

This meter integrates with the Tuya App for smart electricity management. Download the Tuya Smart App from your device's app store.

1. **Pairing:** Follow the instructions within the Tuya App to add a new device. The meter's 'Network' indicator will assist in confirming connectivity status during pairing.
2. **Remote Monitoring:** Once paired, you can view real-time energy consumption, historical data, and manage settings remotely through the app.
3. **Pre-payment Function:** Utilize the app's features to manage pre-payment for electricity, helping to control energy usage and costs.

5.3 Reading the Display

The digital display shows the total accumulated energy consumption in kWh. The '800imp/kWh' indicator flashes to signify energy pulses, with 800 pulses representing 1 kilowatt-hour of consumption.

Accurate measurement with low error

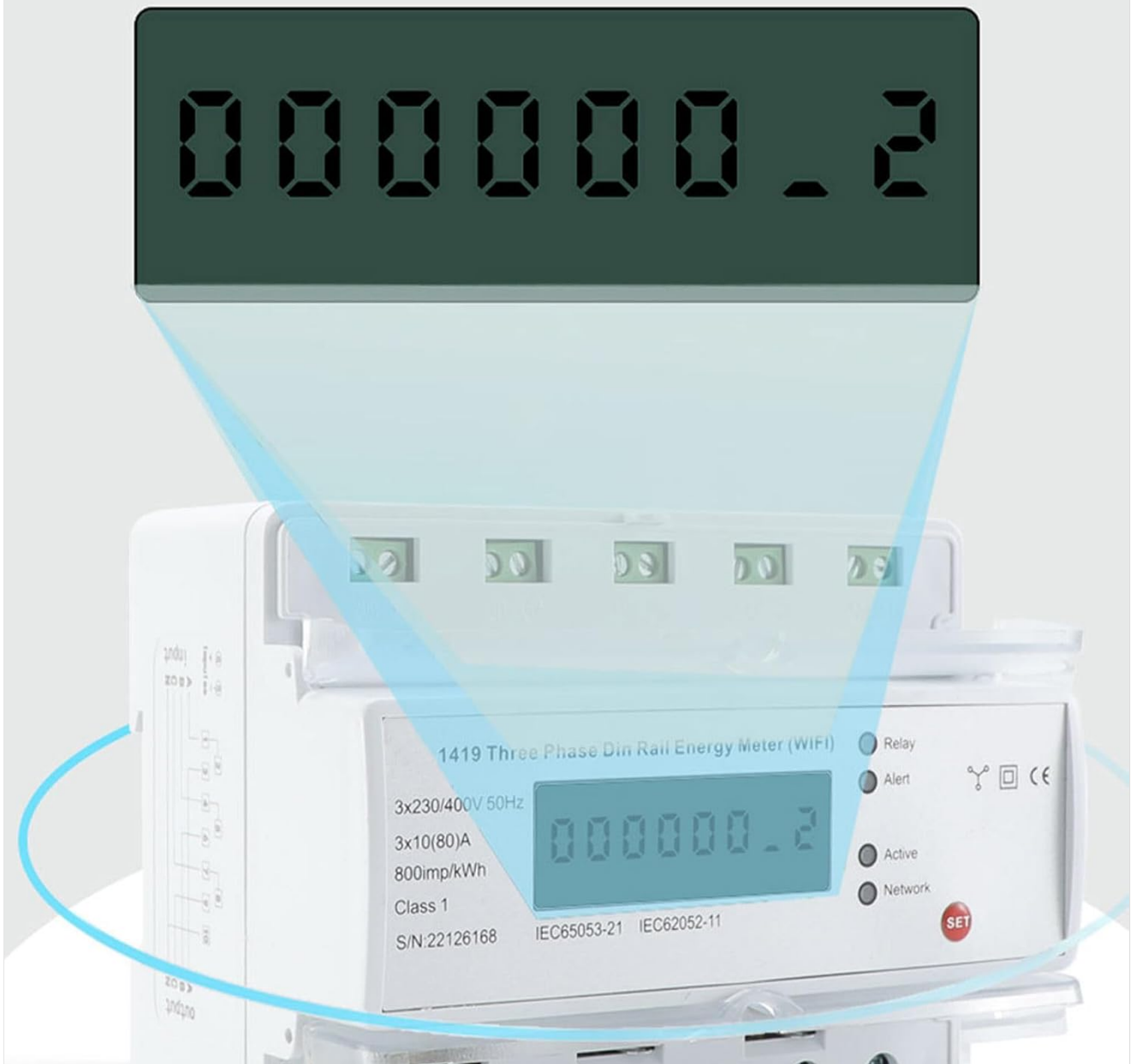


Figure 5.2: Accurate measurement display.

6. MAINTENANCE

- **Cleaning:** Keep the meter clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically inspect the wiring connections for any signs of loosening or damage. Ensure the transparent cover is securely closed.
- **Environment:** Ensure the meter is installed in a dry, well-ventilated area, away from direct sunlight, extreme temperatures, and corrosive environments.
- **No User Serviceable Parts:** The meter contains no user-serviceable parts. Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter display is off	No power supply; Loose wiring	Check power supply to the circuit. Verify all wiring connections are secure.
No energy reading	Incorrect wiring; No load connected	Review wiring diagram (Figure 4.2) and ensure correct connections. Confirm there is an active electrical load.
'Network' indicator off/flashing	No 4G signal; Meter not paired with Tuya App	Ensure adequate 4G signal strength. Follow Tuya App pairing instructions.
Inaccurate readings	Incorrect wiring; Faulty unit	Verify wiring. If problem persists, contact customer support.

If you encounter issues not listed here or if troubleshooting steps do not resolve the problem, please contact FUZHUI customer support.

8. WARRANTY AND SUPPORT

FUZHUI products are manufactured to high-quality standards. For warranty information and technical support, please refer to the documentation included with your purchase or contact FUZHUI customer service directly. Please have your model number (FUZHUI23qu7h5e4k) and purchase details ready when contacting support.