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DEWIN QYIEYXDDE-GS98894

DEWIN Three-Phase 100A 380VAC WiFi Energy Meter Instruction Manual

Brand: DEWIN | **Model:** QYIEYXDDE-GS98894

1. Introduction

Thank you for choosing the DEWIN Three-Phase 100A 380VAC WiFi Energy Meter. This device is designed for accurate measurement and monitoring of electrical energy consumption in three-phase four-wire systems. It integrates advanced protection features and smart control capabilities via a smartphone application, providing a comprehensive solution for energy management. Please read this manual thoroughly before installation and operation to ensure safe and correct usage.

2. Safety Information

- **Electrical Hazard:** Installation and maintenance should only be performed by qualified electricians. Disconnect all power sources before working on the device or its connections.
- **Voltage:** This device operates with high voltage (380V AC). Exercise extreme caution to prevent electric shock.
- **Environment:** Do not install the device in environments with excessive moisture, dust, or corrosive gases. Ensure proper ventilation.
- **Overload:** Do not exceed the maximum current rating of 100A.
- **Proper Wiring:** Ensure all wiring connections are secure and follow the provided wiring diagrams to prevent damage to the device or electrical system.

3. Product Overview

The DEWIN Three-Phase WiFi Energy Meter offers robust features for comprehensive energy monitoring and protection. It is designed for easy integration into standard electrical panels.

3.1 Key Features

- **Remote Control:** Control household appliances via smartphone using the Tuya Smart app, independent of time and distance.
- **Multiple Protections:** Includes over-voltage, over-current, three-phase current imbalance, three-phase voltage imbalance, over-current delay, and phase loss delay protection.
- **High-Precision LCD Display:** Central LCD screen provides clear and accurate data visualization day or night.
- **Bidirectional Measurement:** Measures electrical energy generated by solar power systems and energy flow to the grid.
- **Over-current Delay:** Allows for short-term current surges to handle sudden load changes or motor startups, enhancing circuit reliability.
- **Standard Installation:** Designed for 35mm DIN rail mounting.



Figure 1: DEWIN Three-Phase WiFi Energy Meter displaying readings, alongside a smartphone showing the companion app interface.

3.2 Components

The energy meter features a clear LCD display, control buttons, and robust terminals for secure wiring.



Figure 2: Close-up views highlighting key components: the direction buckle design, integrated smart WiFi chip, anti-theft lock mechanism, and the three-phase four-line terminal configuration.

4. Setup

4.1 Installation

The DEWIN energy meter is designed for easy installation on a standard 35mm DIN rail within an electrical distribution box.

1. **Power Disconnection:** Ensure the main power supply to the electrical panel is completely disconnected before beginning installation.
2. **Mounting:** Clip the energy meter onto a 35mm DIN rail. Ensure it is securely fastened.
3. **Wiring:** Connect the three-phase four-wire system to the designated input and output terminals. Refer to the wiring diagram below and the labels on the device. Ensure correct phase (L1, L2, L3) and neutral (N) connections.
4. **Secure Connections:** Tighten all terminal screws firmly to prevent loose connections, which can cause overheating

or malfunction.



Figure 3: Angled view of the energy meter, clearly showing the input (IN) and output (OUT) terminals for L1, L2, L3 phases and Neutral (N) connections.



Figure 4: The DEWIN energy meter shown installed within a typical electrical distribution panel, demonstrating its DIN rail compatibility.

4.2 App Connection (Tuya Smart)

To utilize the smart features, connect the energy meter to the Tuya Smart application.

1. **Download App:** Download the "Tuya Smart" app from your smartphone's app store (iOS or Android).
2. **Register/Login:** Open the app and register for a new account or log in with an existing one.
3. **Add Device:** Ensure your smartphone is connected to a 2.4 GHz WiFi network. Power on the energy meter. In the Tuya Smart app, tap '+' to add a new device.
4. **Pairing Mode:** Follow the in-app instructions to put the energy meter into pairing mode (usually involves pressing and holding a button on the device until an indicator light flashes).
5. **Connect:** Select the device type (e.g., "Electricity Meter" or "Circuit Breaker") and follow the prompts to connect it to your WiFi network.

5. Operating Instructions

5.1 LCD Display Navigation

The LCD displays various electrical parameters. Use the navigation buttons (up/down arrows, OK) on the device to cycle through different readings such as voltage (V), current (A), power (W), and energy consumption (kWh) for each phase and total.



Figure 5: Front view of the energy meter, highlighting the LCD display showing real-time voltage readings for each phase (L1, L2, L3) and the control buttons for navigation and settings.

5.2 App Control and Settings

The Tuya Smart app provides remote access and advanced configuration options.

- **Real-time Monitoring:** View current, voltage, power, and energy consumption data in real-time from anywhere.
- **Protection Parameter Adjustment:** Adjust the thresholds for various protection features:
  - Under-voltage Protection: 60V - 300V (default: 175V)
  - Over-voltage Protection: 60V - 300V (default: 275V)
  - Over-current Protection: 1A - 100A (default: 80A)
  - Under-current Protection: 1A - 100A (default: disabled)

- Voltage Imbalance Protection: 10-100% (default: disabled)
- Current Imbalance Protection: 10-100% (default: disabled)

- **Scheduling:** Set schedules for turning the power on/off.
- **Energy Reports:** Access historical energy consumption data and reports.

6. Maintenance

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically check the wiring connections for tightness and signs of wear or damage.
- **Firmware Updates:** Check the Tuya Smart app for any available firmware updates for the device to ensure optimal performance and security.

7. Troubleshooting

Problem	Possible Cause	Solution
Device not powering on	No power supply; incorrect wiring; device fault.	Check main power supply. Verify wiring connections. If problem persists, contact support.
No WiFi connection	Incorrect WiFi password; 5GHz network; device too far from router; pairing mode not activated.	Ensure 2.4GHz WiFi. Re-enter password. Move device closer to router. Re-enter pairing mode in app.
Inaccurate readings	Incorrect wiring; faulty sensor.	Verify wiring according to diagram. If readings are consistently incorrect, contact support.
Protection tripping frequently	Overload; incorrect protection settings; electrical fault.	Check connected loads. Adjust protection thresholds in the app if appropriate. Consult an electrician to check for electrical faults.

8. Specifications

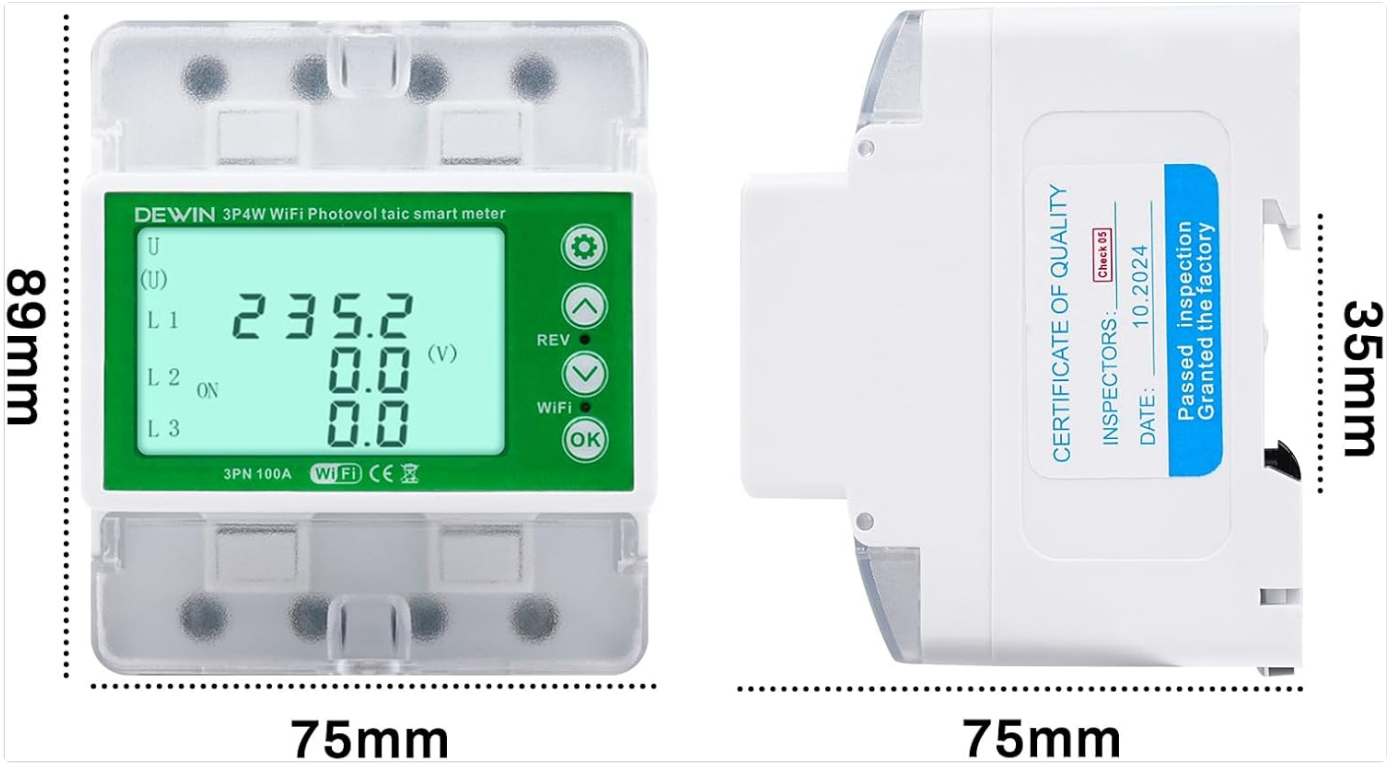


Figure 6: Product dimensions showing a height of 89mm, width of 75mm, and depth of 35mm for DIN rail mounting.

Parameter	Value
Brand	DEWIN
Model Number	QYIEYXDDE-GS98894
Maximum Current	100 A
Supply Voltage	380 V AC
Operating Voltage Range	80 V - 400 V AC
Rated Frequency	50 Hz
Display Mode	LCD
WiFi Control	Tuya Smart App
WiFi Frequency	2.4 GHz
Installation Method	35 mm DIN Rail
Under-voltage Protection	60 V - 300 V (Adjustable, Default: 175 V)
Over-voltage Protection	60 V - 300 V (Adjustable, Default: 275 V)
Over-current Protection	1 A - 100 A (Adjustable, Default: 80 A)
Under-current Protection	1 A - 100 A (Adjustable, Default: Disabled)
Voltage Imbalance Protection	10-100% (Adjustable, Default: Disabled)
Current Imbalance Protection	10-100% (Adjustable, Default: Disabled)
Product Dimensions (L x W x H)	7.62 x 7.62 x 7.62 cm

Parameter	Value
Item Weight	480 g
Country of Origin	China

9. Warranty and Support

Warranty information for the DEWIN Three-Phase WiFi Energy Meter is typically provided at the point of purchase or can be found on the manufacturer's official website. Please retain your proof of purchase for warranty claims.
For technical support, troubleshooting assistance beyond this manual, or inquiries regarding spare parts, please contact DEWIN customer service. Refer to the contact information provided with your product packaging or visit the official DEWIN website for support details.

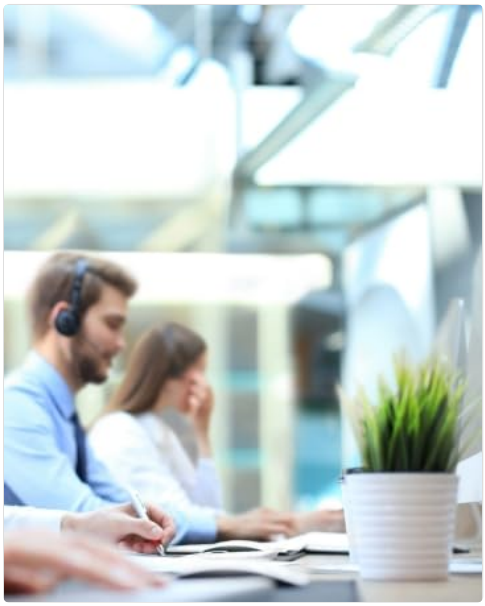


Figure 7: DEWIN customer service team ready to assist with product inquiries and support.

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