

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [EARU](#) /
- › [EARU Electric Single Phase Energy Meter 220V 80A Instruction Manual](#)

EARU EARU-1006

EARU Electric Single Phase Energy Meter 220V 80A Instruction Manual

Model: EARU-1006

1. INTRODUCTION

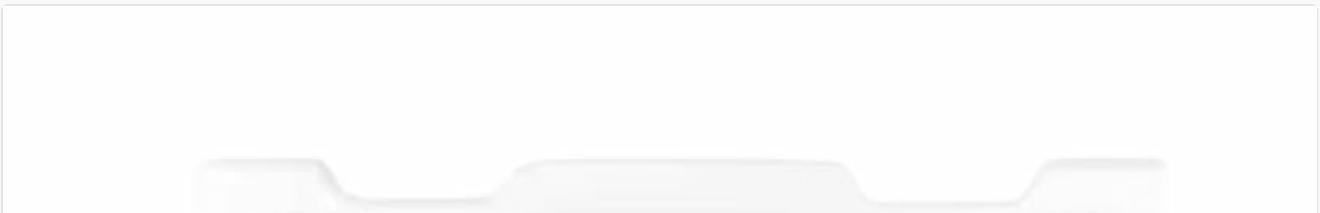
The EARU Electric Single Phase Energy Meter (Model EARU-1006) is designed for accurate monitoring of electrical parameters in single-phase 220V, 80A systems. It provides real-time data for voltage (V), current (A), power (W), power factor (PF), frequency (Hz), and kilowatt-hour (kWh) consumption. This device assists in understanding energy usage and identifying potential inefficiencies in your electrical system.

2. SAFETY INFORMATION

- Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations.
- Ensure the main power supply is disconnected before installation or maintenance to prevent electric shock.
- Do not operate the device if it appears damaged.
- This device is designed for indoor use in a dry environment. Avoid exposure to moisture or extreme temperatures.
- The maximum current rating is 80A. Do not exceed this limit.

3. PRODUCT OVERVIEW

The EARU-1006 energy meter features a clear LCD display that shows various electrical parameters simultaneously. It is designed for DIN rail mounting, allowing for easy integration into standard electrical distribution boards.



1 PHASE 2 WIRES ENERGY METER

DDSS669-A

IEC62053-21

EARU 0.0 W

0.00 A 2 19.4 V

49.9 Hz 0.00 PF

0050.05 kWh temp

0049.51 kWh total

80A 220VAC 50/60Hz Direct Wiring CE ⚡ Ⓜ Ⓢ

Figure 1: Front view of the EARU Electric Single Phase Energy Meter, showing the LCD display with various electrical readings.

LCD Display Screen Color HD

High definition LCD large screen display,
clear data at a glance

80A



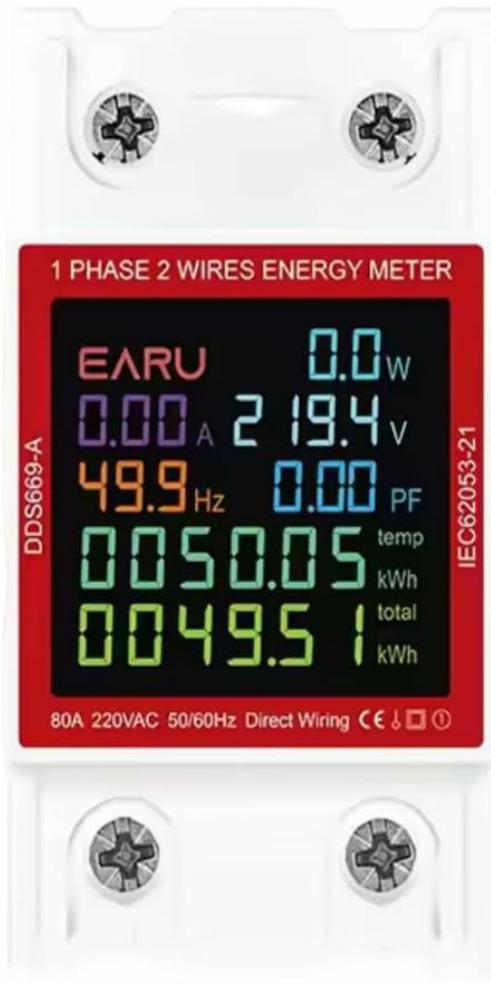
Figure 2: Detailed view of the LCD display, illustrating the layout of voltage, current, power, frequency, power factor, and kWh readings.

4. PACKAGE CONTENTS

The package typically includes:

- 1 x EARU Electric Single Phase Energy Meter (Model EARU-1006)

5. SPECIFICATIONS



Technical Data:

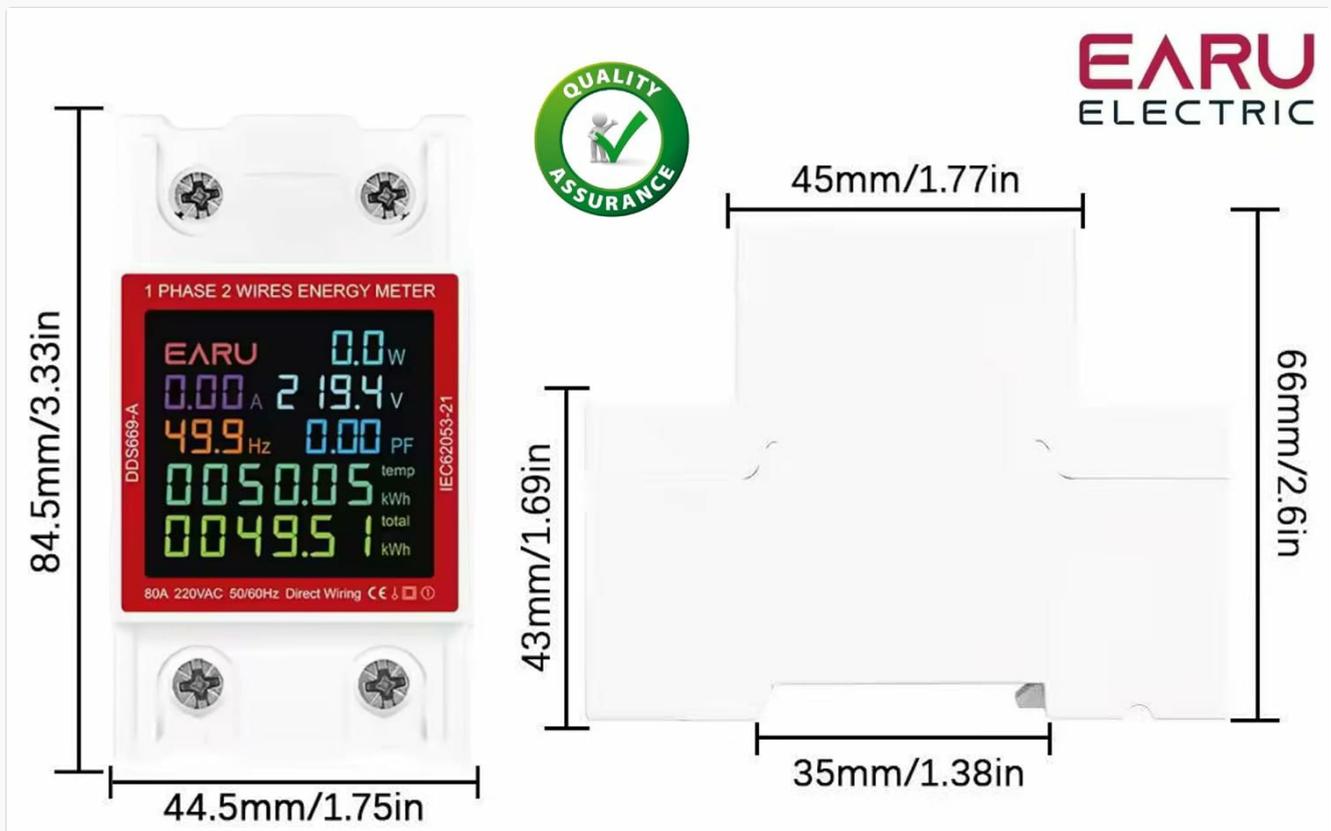
| | |
|----------------------|--------------------------------|
| Rated Voltage | AC110V/220V |
| Frequency | 50/60Hz |
| Measurement Accuracy | ±1%/Class 1 |
| Data Fresh Speed | 1 Time/S |
| Power Consumption | <2W |
| Installation | 35MM Din Rail |
| Working Temperature | -10°C~+55°C |
| Storage Temperature | -40°C~+70°C |
| Working Humidity | 5%~95%RH |
| Display Type | LCD |
| Max kWh Record | 999999kWh |
| Display Working Time | Always On |
| Load Capacity | 0.051b-I _{max} |
| Standard | IEC62053-21&GB/T17215.321-2008 |

Figure 3: Technical data table providing detailed specifications of the energy meter.

Technical Specifications

| Parameter | Value |
|----------------------|-------------------------|
| Brand | EARU |
| Model | EARU-1006 |
| Rated Voltage | AC110V/220V (230 Volts) |
| Rated Current | 80A |
| Frequency | 50/60Hz |
| Measurement Accuracy | ±1% / Class 1 |
| Power Consumption | <2W |

| Parameter | Value |
|---------------------|----------------|
| Installation | 35mm DIN Rail |
| Working Temperature | -10°C to +55°C |
| Storage Temperature | -40°C to +70°C |
| Working Humidity | 5% to 95% RH |
| Display Type | LCD |
| Max kWh Record | 999999kWh |
| Product Dimensions | 10 x 5 x 10 cm |
| Item Weight | 450 g |



| Product Parameters | |
|-----------------------------|---------------------------------|
| Rated Voltage: AC110/AC220V | Frequency: 50/60Hz |
| DDS669-A Rated Current: 80A | 669-B Rated Current: 80A |
| 669-C Rated Current: 90A | Measurement Accuracy: ±1% |
| Power Consumption: <2W | Working Temperature: -10°C-55°C |
| Max kWh Record: 999999kWh | Certification: CE |

Figure 4: Dimensional drawing of the energy meter, showing measurements in both millimeters and inches.

6. SETUP AND INSTALLATION

Important: Ensure all power is disconnected before proceeding with installation.

- Mounting:** The EARU-1006 is designed for 35mm DIN rail mounting. Snap the meter onto the DIN rail securely within your electrical panel.
- Wiring:** Refer to the wiring diagram below for correct connection. This is a single-phase, 2-wire direct connection meter.
 - Connect the Live (L) input wire to the designated 'L In' terminal.
 - Connect the Neutral (N) input wire to the designated 'N In' terminal.
 - Connect the Live (L) output wire to the designated 'L Out' terminal.
 - Connect the Neutral (N) output wire to the designated 'N Out' terminal.
- Power On:** Once all connections are secure and verified, restore power to the circuit. The LCD display should illuminate and begin showing readings.

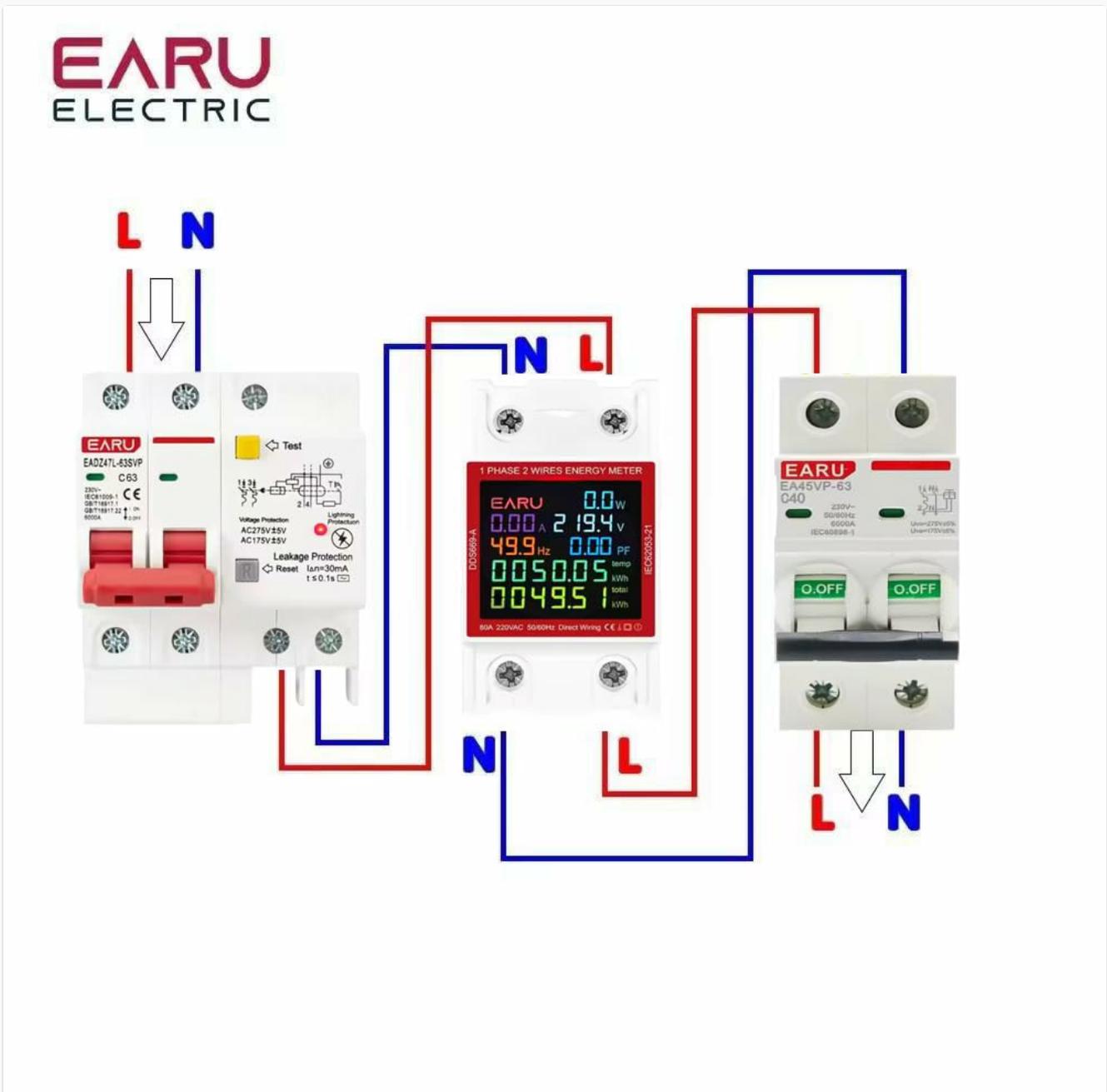


Figure 5: Wiring diagram illustrating the correct connections for the single-phase energy meter.

7. OPERATING INSTRUCTIONS

The energy meter operates automatically once powered on. The LCD display continuously cycles through or shows multiple parameters simultaneously.

- **Reading Parameters:** The display shows Voltage (V), Current (A), Power (W), Power Factor (PF), Frequency (Hz), and Kilowatt-hour (kWh).
- **kWh Reading:** The meter records total kWh consumption. This reading is permanent and accumulates over time.
- **kWh Reset:** The meter features a manual reset function for the kWh reading. Consult the device's physical buttons or specific instructions on the meter itself for the reset procedure. Typically, a long press on a designated button (if present) will reset the temporary kWh value. The total kWh value is usually non-resettable.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the meter's exterior. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the wiring connections to ensure they are tight and free from corrosion.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges.

9. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|----------------------|---|--|
| Display is blank | No power supply; Incorrect wiring | Check power connections and ensure power is supplied. Verify wiring against the diagram. |
| Incorrect readings | Incorrect wiring; Faulty connection | Double-check all wiring connections. Ensure wires are securely fastened. |
| kWh not accumulating | No load connected; Meter malfunction | Ensure there is an active electrical load connected through the meter. If problem persists, contact support. |

10. WARRANTY AND SUPPORT

The EARU Electric Single Phase Energy Meter (Model EARU-1006) typically comes with a 1-year warranty from the date of purchase. Please retain your purchase receipt for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact your retailer or the manufacturer directly. Refer to the product packaging or manufacturer's website for contact details.

