

Vikye D52-2047

Vikye D52-2047 Multifunction AC Voltage Current Power Factor Meter User Manual

Model: D52-2047 | Brand: Vikye

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Vikye D52-2047 Multifunction AC Voltage Current Power Factor Meter. This device is designed for measuring AC voltage, AC current, active power, electrical energy, cumulative time, and power factor. Please read this manual thoroughly before use to ensure safe and correct operation.

PRODUCT FEATURES

- **Rail-Mounted Design:** Facilitates easy installation, saving effort and space.
- **Simultaneous Display:** Shows AC voltage and current power factor concurrently.
- **High Precision:** Offers stable performance with a measurement accuracy of 1% + 2 digits.
- **Automatic Current Resolution:** Automatically adjusts display resolution to 0.01A for currents below 100A and 0.1A for currents above 100A.
- **Multi-Color LED Display:** Features a 0.31-inch LED digital tube display:
 - Red 4-digit display for AC Voltage.
 - Red 5-digit display for AC Current and Active Power.
 - Green 5-digit display for Electrical Energy (Kwh).
- **Measurement Capabilities:** Measures AC voltage (AC200-450V), AC current (AC0-100.0A), active power (0-45000W), electrical energy (0.000-99999kwh), cumulative time (0.00-999.59h), and power factor (1.000-0.000).

Simultaneous display of AC voltage and current power factor
Stable performance and high accuracy



Image: The D52-2047 meter showing simultaneous display of AC voltage and current power factor, highlighting its stable performance and high accuracy.



Ac voltage



Alternating current



Power factor



Active power



Electric energy



Cumulative time
electricity



Reset



Data save

Image: Visual representation of the various functions measured by the D52-2047 meter, including voltage, current, power factor, active power, energy, and cumulative time, along with reset and data save capabilities.

SETUP AND INSTALLATION

The D52-2047 meter is designed for DIN rail mounting. Follow these steps for proper installation:

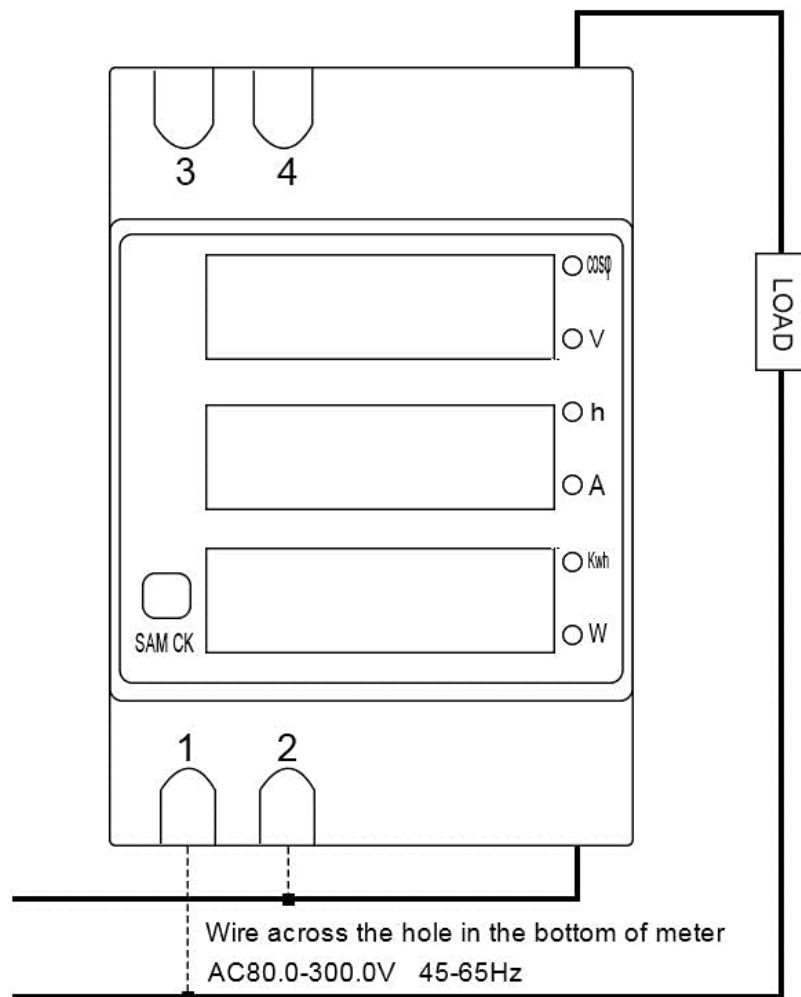
1. **Mounting:** Securely attach the meter to a standard 3.5cm DIN rail.
2. **Wiring for Measurement:** The main AC line (phase wire from the street) must pass through the circular hole at the bottom of the meter. This allows the meter to measure the current.
3. **Power Supply Connection:** Connect the meter's power terminals (labeled 1 and 2) to the AC phase and neutral lines. Use two short pieces of wire to connect these terminals to an existing phase and neutral from your DIN rail setup. The meter operates within an AC voltage range of 200-450V at 45-65Hz.

Important Attention:

- This meter is specifically designed to measure 50Hz/60Hz AC city electricity.

- Do NOT use this meter to measure square wave, inverter output, or non-standard sine wave power sources, as this will damage the device.

Installation



Attention: The meter can only be used to measure 50Hz / 60Hz AC city electricity, it will be destroyed when used to measure square wave, inverter output or non-standard sine wave.

Image: Installation diagram illustrating how to wire the D52-2047 meter, showing the load wire passing through the sensing hole and the power input terminals.

OPERATING INSTRUCTIONS

The D52-2047 meter features a clear LED display and a function conversion button for easy operation.

Display Overview:

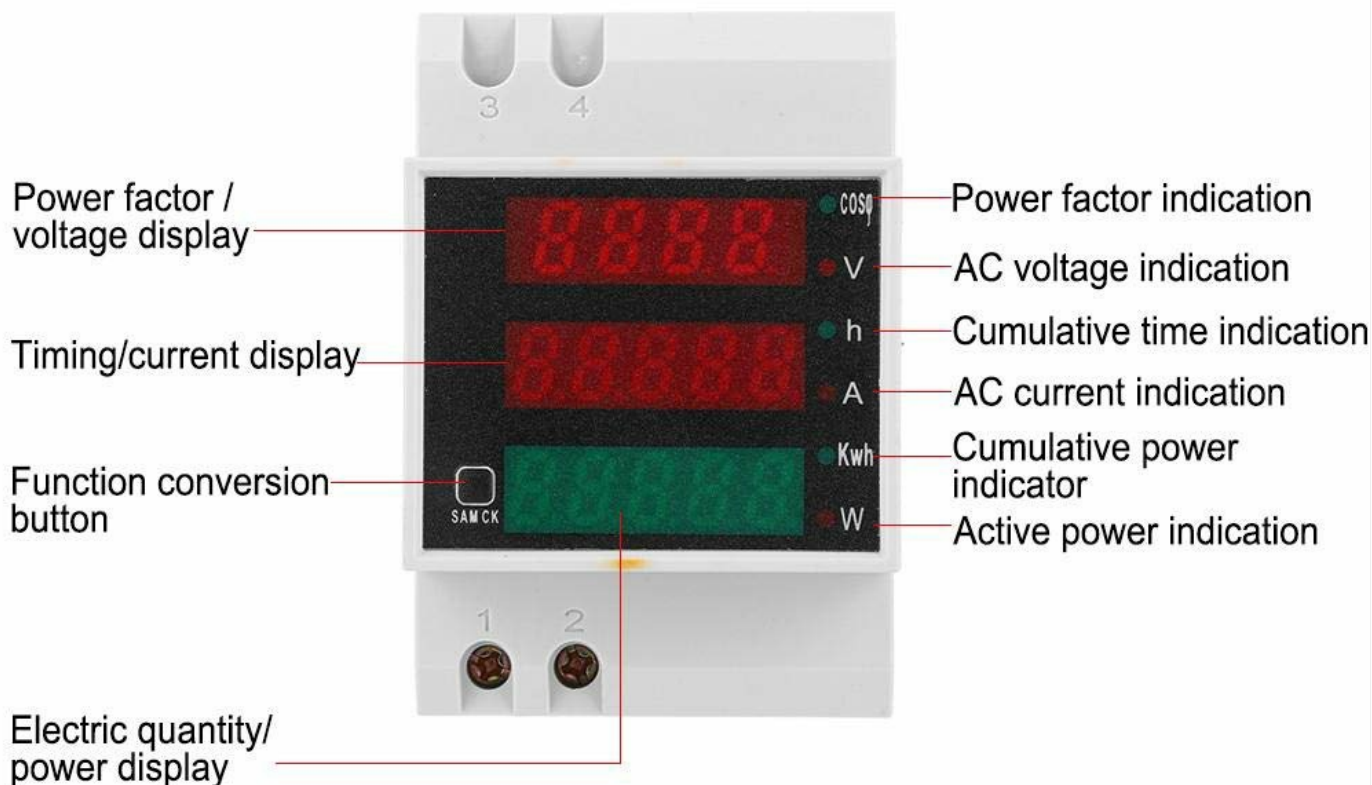


Image: Detailed view of the D52-2047 meter's display, with labels pointing to the power factor/voltage display, timing/current display, function conversion button, and electric quantity/power display.

- **Top Red Display:** Shows Power Factor ($\text{COS}\phi$) and AC Voltage (V).
- **Middle Red Display:** Shows Cumulative Time (h) and AC Current (A).
- **Bottom Green Display:** Shows Electrical Energy (Kwh) and Active Power (W).

Function Conversion Button (SAM CK):

The 'SAM CK' button, located on the front panel, allows you to cycle through different display modes for the middle and bottom sections of the screen. Pressing this button will switch between the various parameters (e.g., from Cumulative Time to AC Current, or from Electrical Energy to Active Power) as indicated by the corresponding labels on the right side of the display.

MAINTENANCE

To ensure the longevity and accurate performance of your Vikye D52-2047 meter, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the meter's surface. Do not use abrasive cleaners or solvents, as they may damage the display or casing.
- **Environmental Conditions:** Operate and store the meter within its specified environmental conditions (temperature, humidity) to prevent damage.
- **Inspection:** Periodically inspect the wiring connections to ensure they are secure and free from corrosion.
- **Avoid Overload:** Ensure the current and voltage being measured do not exceed the meter's maximum ratings to prevent internal damage.

TROUBLESHOOTING

If you encounter issues with your D52-2047 meter, refer to the following common problems and solutions:

- **No Display:**
 - Check if the power supply (AC phase and neutral) is correctly connected to terminals 1 and 2.
 - Verify that the input voltage is within the AC200-450V range.
 - Ensure there is power to the circuit the meter is connected to.
- **Incorrect Readings:**
 - Confirm that the main load wire passes correctly through the circular current sensing hole.
 - Ensure the power source is a standard 50Hz/60Hz AC city electricity. The meter is not compatible with square wave, inverter output, or non-standard sine wave sources.
 - Check for loose wiring connections.
- **Button Not Responding:**
 - Gently press the 'SAM CK' button to ensure it is not stuck.
 - If the issue persists, power cycle the device by temporarily disconnecting and reconnecting the power supply.

If these steps do not resolve the issue, please contact customer support for further assistance.

SPECIFICATIONS

Detailed technical specifications for the Vikye D52-2047 Multifunction Meter:

Parameter	Value
Product Model	D52-2047
Measurement Accuracy	1% + 2 digits
AC Voltage Range	AC200-450V
AC Current Range	AC0-100.0A
Current Resolution (<100A)	0.01A
Current Resolution (>100A)	0.1A
Active Power Range	0-45000W
Electrical Energy Range	0.000-99999kwh

Parameter	Value
Cumulative Time Range	0.00-999.59h
Power Factor Range	1.000-0.000
Measurement Speed	Approximately 2 times per second
Display Type	0.31 inch LED Digital Tube (Red for V, A, W; Green for Kwh)
Mounting Type	DIN Rail (3.5cm standard)
UPC	738674243767
Manufacturer	Vikye
Country of Origin	China

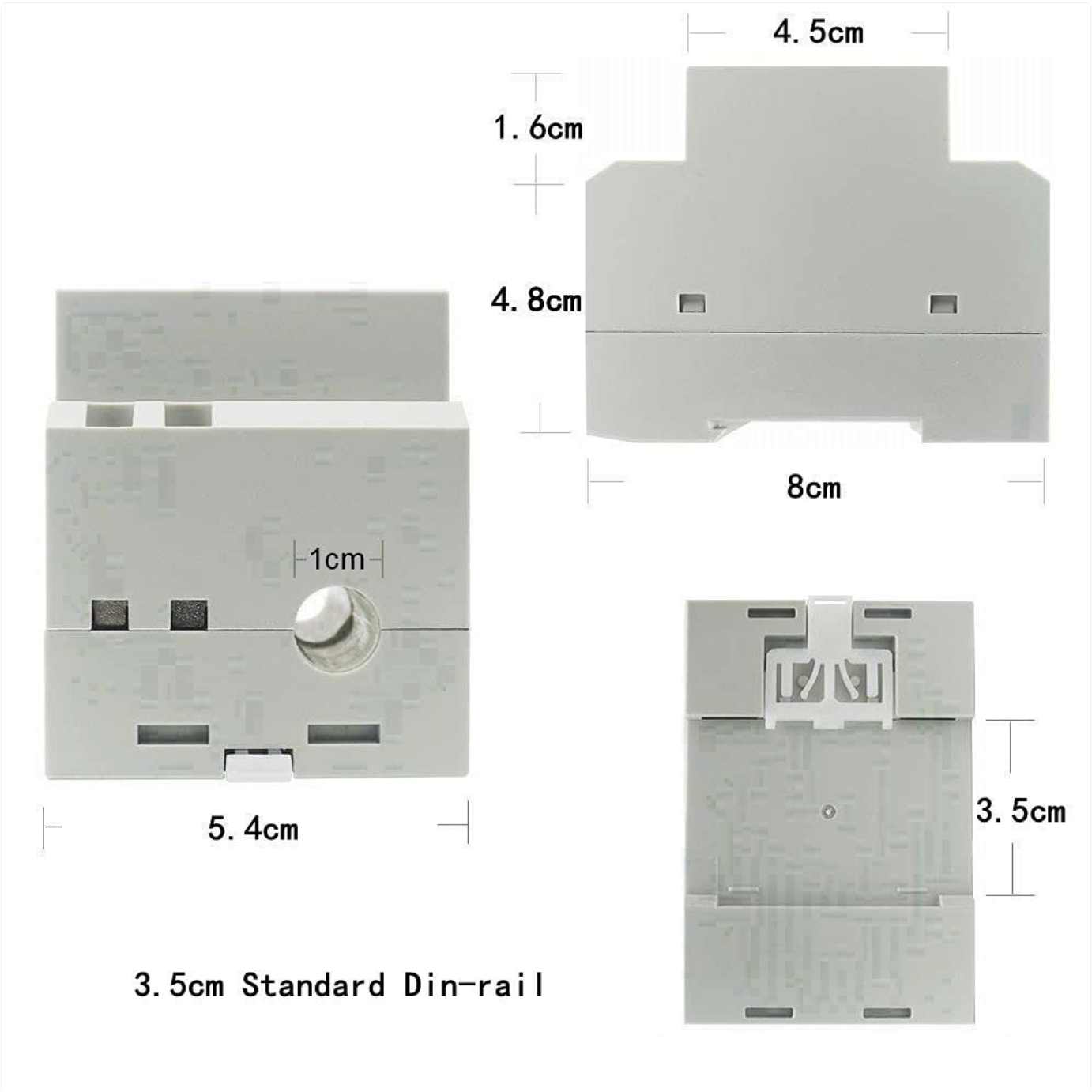


Image: Dimensional drawing of the D52-2047 meter, indicating its physical size and compatibility with a 3.5cm standard DIN rail.

WARRANTY INFORMATION

This Vikye D52-2047 Multifunction Meter comes with a standard manufacturer's warranty. Please refer to the product packaging or the seller's terms and conditions for specific warranty duration and coverage details. Typically, the warranty covers defects in materials and workmanship under normal use. Damage resulting from improper installation, misuse, unauthorized modifications, or operation outside specified parameters is generally not covered.

CUSTOMER SUPPORT

For any questions, technical assistance, or support regarding your Vikye D52-2047 meter, please contact the seller or manufacturer directly. When contacting support, please have your product model (D52-2047) and purchase information readily available to facilitate a quicker resolution.

If you are not satisfied with the product, please do not hesitate to contact us for quality after-sales service.

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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.

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