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MObyat DDS667

MOBYAT DDS667 Digital Single Phase Energy Meter User Manual

Model: DDS667

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the MOBYAT DDS667 Digital Single Phase Energy Meter. This device is designed to accurately measure and display various electrical parameters, including total energy (kWh), temporary energy (kWh), real voltage, real current, and real power. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

Warning: Installation and maintenance should only be performed by qualified personnel. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before installing or servicing the meter.
- Ensure all wiring connections are secure and correct according to the wiring diagram.
- Do not operate the meter in wet or damp conditions.
- Do not exceed the specified maximum current and voltage ratings.
- Keep the device away from strong electromagnetic interference.

3. Product Features

- Maximum current: 80A
- Pulse frequency: 1000imp / kWh
- LCD display with backlight for clear readability.
- Pulse LED indicator for meter operation.
- 35mm DIN rail installation.
- Multifunctional display: Total Energy (kWh), Temporary Energy (kWh), Real Voltage, Real Current, Real Power.
- Manual button for cycling through display parameters.
- Temporary kWh reset function (hold button for 6 seconds).
- Supports two wiring modes: upper input lower output and lower input upper output.

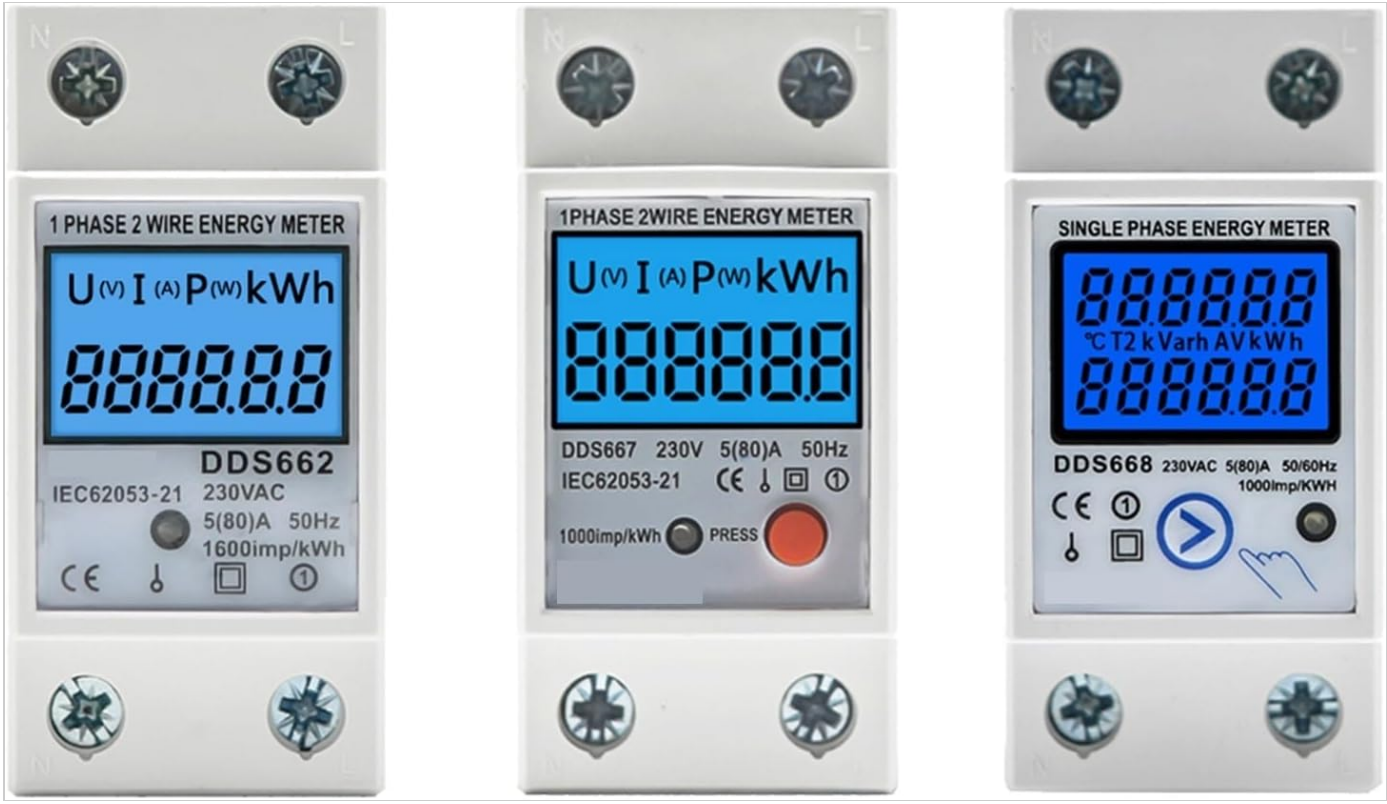


Figure 3.1: Overview of different MOBYAT energy meter models, including the DDS667.

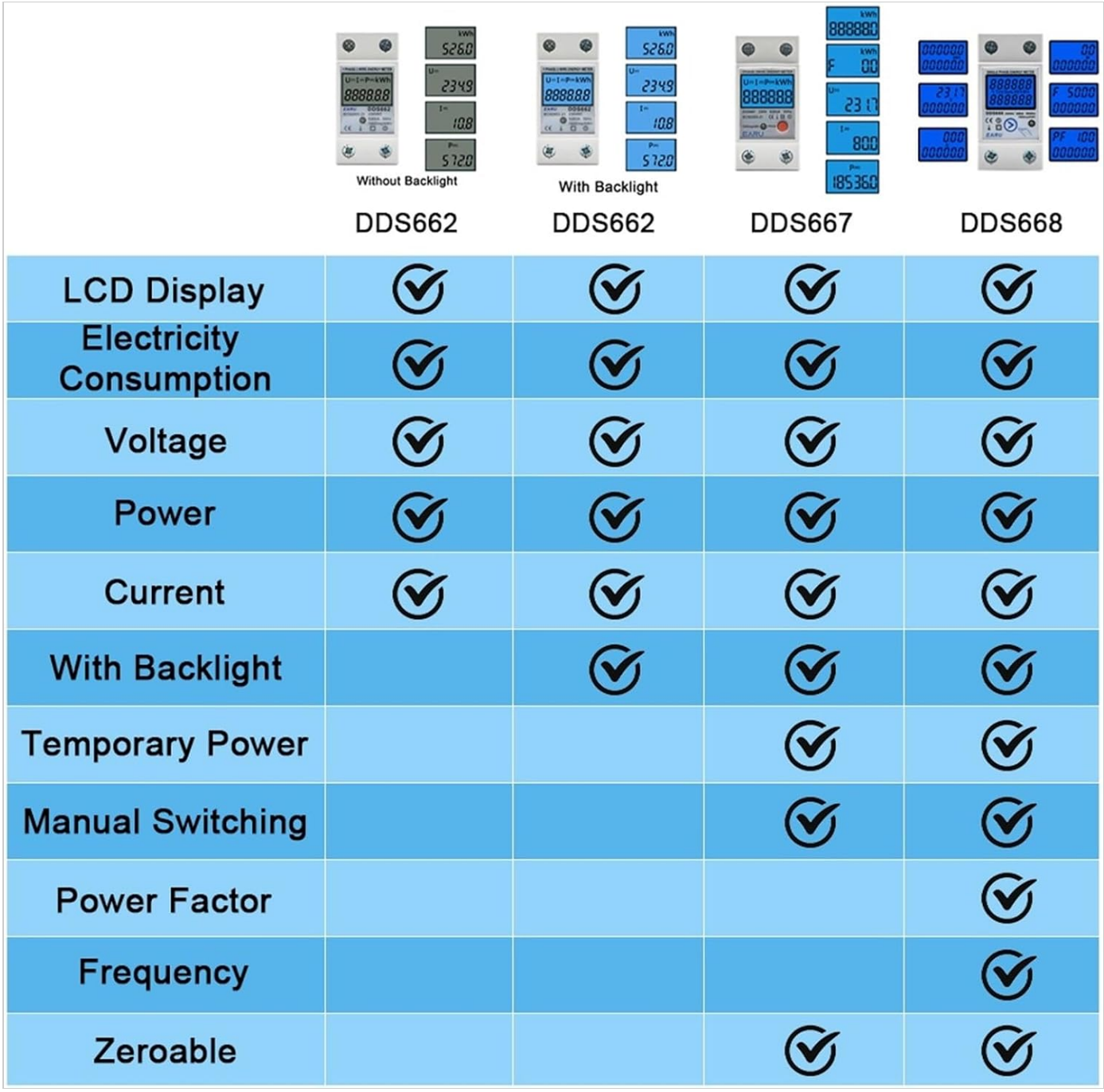


Figure 3.2: Feature comparison table for DDS662, DDS667, and DDS668 models. The DDS667 model includes LCD display, electricity consumption, voltage, power, current, temporary power, and zeroable temporary kWh.

4. Specifications

Parameter	Value
Model	DDS667
Voltage Rating	110V AC (as per current product variant)
Maximum Current	80A
Pulse Frequency	1000imp / kWh
Installation	35mm DIN Rail
Display	LCD with Backlight

Parameter	Value
Item Weight	0.035 ounces
Manufacturer	MOBYAT

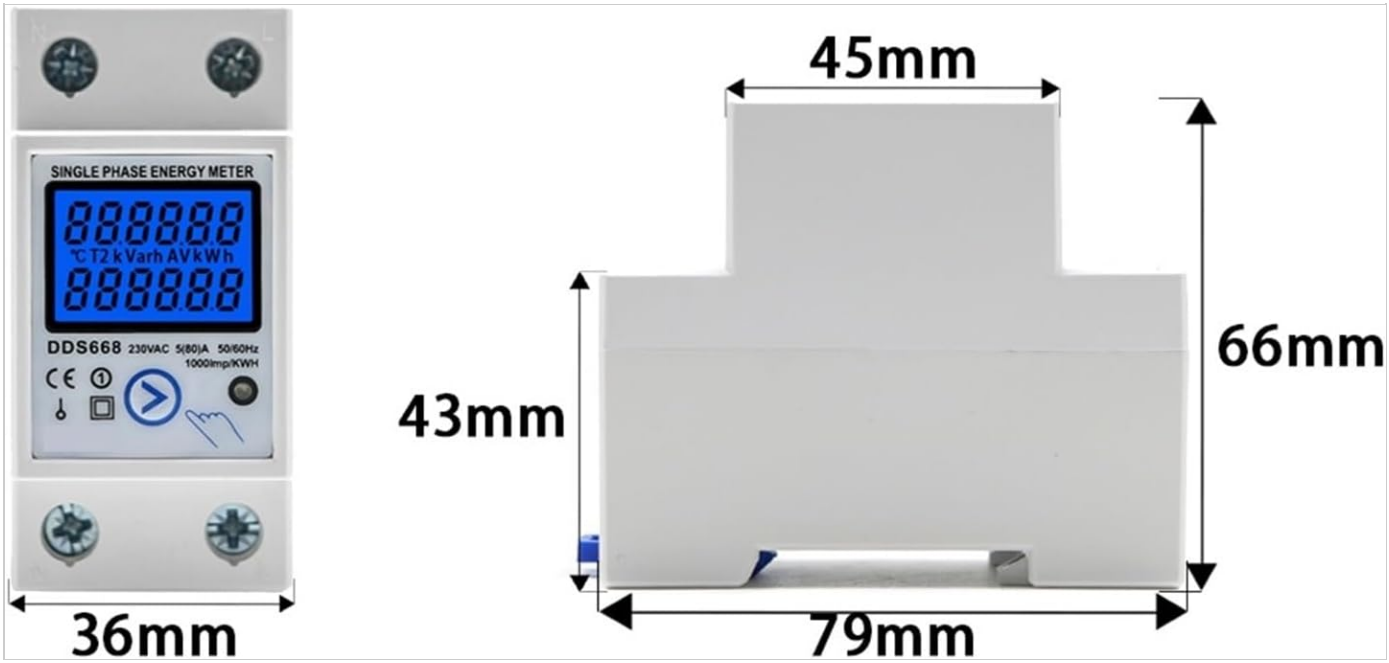


Figure 4.1: Physical dimensions of the energy meter, suitable for 35mm DIN rail mounting.

5. Package Contents

The package typically includes:

- 1 x MOBYAT DDS667 Digital Single Phase Energy Meter
- User Manual (this document)

6. Installation

The DDS667 energy meter is designed for 35mm DIN rail installation. Ensure power is disconnected before proceeding with installation.

6.1 Mounting

1. Locate a suitable 35mm DIN rail within your electrical panel.
2. Align the meter's DIN rail clip with the rail.
3. Press the meter firmly onto the DIN rail until it clicks into place.

6.2 Wiring Diagram (DDS667 Model)

The DDS667 model supports two wiring configurations. Always ensure correct polarity (Live 'L' and Neutral 'N') and secure connections.

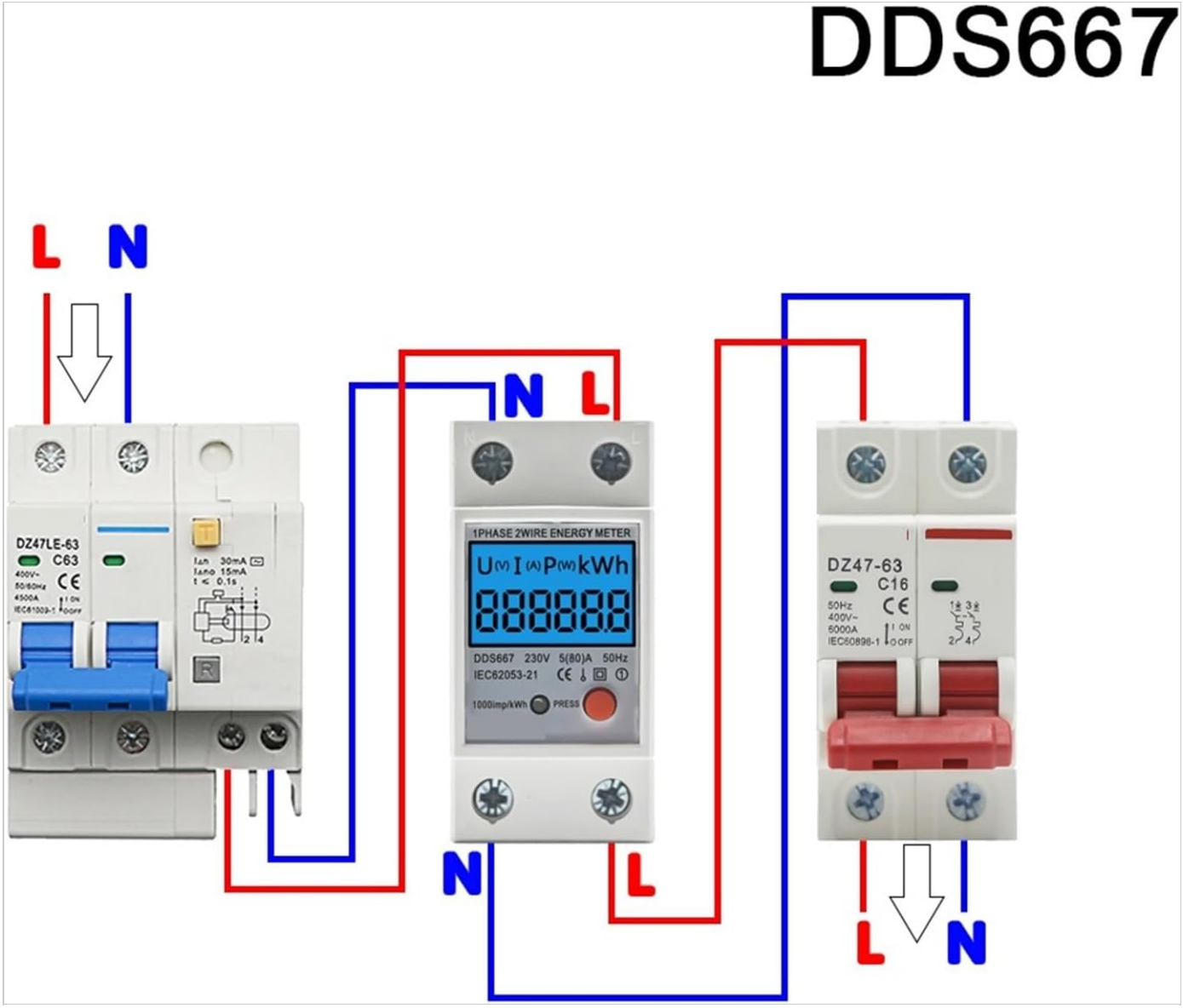


Figure 6.1: Wiring diagram for the DDS667 energy meter. This diagram illustrates how to connect the meter in a single-phase circuit, typically between a circuit breaker and the load, ensuring proper Live (L) and Neutral (N) connections.

- Connect the incoming Live (L) wire to the 'L' input terminal.
- Connect the incoming Neutral (N) wire to the 'N' input terminal.
- Connect the outgoing Live (L) wire to the 'L' output terminal, leading to the load.
- Connect the outgoing Neutral (N) wire to the 'N' output terminal, leading to the load.
- Double-check all connections before restoring power.

7. Operation

Once installed and powered, the meter will automatically display electrical parameters on its LCD screen.

7.1 Display Functions

The DDS667 meter cycles through various parameters on its LCD display. You can manually switch between these displays by pressing the "PRESS" button located on the front panel.

- **Total Energy (kWh):** Cumulative energy consumption, cannot be reset.
- **Temporary Energy (kWh):** Resettable energy consumption for specific periods.
- **Real Voltage (V):** Instantaneous voltage of the circuit.
- **Real Current (A):** Instantaneous current flowing through the circuit.

- **Real Power (W):** Instantaneous active power consumption.

7.2 Resetting Temporary Energy (kWh)

To reset the Temporary Energy (kWh) reading to zero:

1. Ensure the meter is displaying the "Temporary Energy (kWh)" value.
2. Press and hold the "PRESS" button for approximately 6 seconds.
3. The Temporary Energy (kWh) value will reset to 0.00.

Note: The Total Energy (kWh) cannot be reset.

8. Troubleshooting

Problem	Possible Cause	Solution
Meter display is blank.	No power supply; incorrect wiring.	Check power connections and ensure power is supplied to the meter. Verify wiring against the diagram.
Readings are incorrect or fluctuating.	Loose connections; electromagnetic interference; faulty meter.	Tighten all wiring connections. Relocate the meter away from strong interference sources if possible. If problem persists, contact support.
Temporary kWh will not reset.	Button not held long enough; attempting to reset Total kWh.	Ensure you are viewing Temporary kWh and hold the "PRESS" button for at least 6 seconds. Remember, Total kWh cannot be reset.
Pulse LED not flashing.	No load connected; meter not functioning.	Ensure a load is connected and drawing power. If a load is present and the LED is still off, contact support.

9. Maintenance

- Keep the meter clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not use abrasive cleaners or solvents.
- Regularly check wiring connections for tightness and signs of wear or damage.
- Ensure the operating environment is within the specified temperature and humidity ranges.

10. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase.

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