

## SOBOUR DDSU666, DTSU666

# SOBOUR DDSU666 / DTSU666 Single-Phase DIN Rail Energy Meter User Manual

Models: DDSU666 5(80)A, DTSU666 1.5(6)A, DTSU666 5(80)A

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the SOBOUR DDSU666 and DTSU666 series single-phase DIN rail energy meters. These meters are designed for accurate measurement of active energy consumption in various electrical systems. Please read this manual thoroughly before installation and operation to ensure safe and correct usage.

## 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 damage to the device.

- Always disconnect power before installing or servicing the meter.
- Ensure proper grounding to prevent electrical hazards.
- Do not operate the meter in environments exceeding its specified operating conditions.
- Avoid exposing the meter to direct sunlight, high temperatures, or excessive humidity.
- Do not open the meter casing; there are no user-serviceable parts inside.

## 3. PRODUCT OVERVIEW

The SOBOUR DDSU666 and DTSU666 are compact, single-phase electronic energy meters designed for DIN rail mounting. They feature an LCD display for clear readings of energy consumption and may include RS485 communication capabilities for remote monitoring.



This image displays two SOBOUR DDSU666 single-phase electronic energy meters designed for DIN rail mounting. Both meters feature an LCD screen for displaying energy consumption data. The left meter shows specifications including 220V 5(60)A, 800imp/kWh, and compliance with GB/T 17215.321-2008. The right meter indicates 220/230V 5(80)A 50/60Hz, C1.1, 800imp/kWh, and a CE mark, along with an RS485 symbol, suggesting communication capabilities.

## 4. SETUP AND INSTALLATION

### 4.1. Mounting

The meter is designed for standard 35mm DIN rail mounting. Ensure the mounting location is stable, free from vibrations, and provides adequate ventilation.

1. Locate an appropriate section of the DIN rail within your electrical panel.
2. Align the meter's DIN rail clip with the rail.
3. Press the meter firmly onto the rail until it clicks into place.

### 4.2. Wiring

**Important:** All wiring must be performed with the main power supply disconnected. Refer to local electrical codes and standards.

- Connect the incoming live (L) and neutral (N) wires to the designated input terminals.
- Connect the outgoing live (L) and neutral (N) wires to the designated output terminals.
- For models with RS485 communication, connect the A and B data lines to the corresponding terminals of your communication network.
- Ensure all connections are secure and properly insulated.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Power On

After successful installation and wiring, restore power to the circuit. The meter's LCD display should illuminate and begin showing readings.

### 5.2. LCD Display

The LCD display typically shows the total active energy consumption in kilowatt-hours (kWh). Some models may cycle through various parameters such as instantaneous voltage, current, power, and frequency. Consult the specific model's detailed documentation for display navigation if buttons are present.

### 5.3. Pulse Output

The meter provides a pulse output (800imp/kWh) for external devices to count energy consumption. Each pulse represents a specific amount of energy consumed, as indicated by the meter's specifications.

### 5.4. RS485 Communication (if applicable)

For models equipped with RS485, the meter can be integrated into a monitoring system. Communication parameters (e.g., baud rate, parity, address) may need to be configured. Refer to the RS485 communication protocol guide for detailed setup and data retrieval instructions.

## 6. MAINTENANCE

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The SOBOUR energy meter is designed for long-term, maintenance-free operation. However, periodic checks are recommended:

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

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Display is blank	No power supply; faulty wiring	Check power connections and circuit breaker. Ensure wiring is correct.

Problem	Possible Cause	Solution
Meter not counting energy	Incorrect wiring; no load connected	Verify wiring according to the diagram. Ensure there is an active load drawing power.
Inaccurate readings	Incorrect current transformer (CT) ratio (if applicable); external interference	Ensure correct CT ratio settings. Check for strong electromagnetic interference.
RS485 communication failure	Incorrect wiring; wrong communication parameters; device address conflict	Check RS485 A/B wiring. Verify baud rate, parity, and stop bits. Ensure unique device addresses.

If the problem persists after attempting these solutions, contact customer support.

## 8. SPECIFICATIONS

Parameter	Value
Model	DDSU666, DTSU666
Rated Voltage	220V / 230V AC
Rated Current (DDSU666)	5(80)A
Rated Current (DTSU666)	1.5(6)A or 5(80)A
Frequency	50Hz / 60Hz
Accuracy Class	C1.1
Impulse Constant	800imp/kWh
Communication	RS485 (for applicable models)
Mounting	35mm DIN Rail
Standard Compliance	GB/T 17215.321-2008
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	2.2 Pounds

## 9. WARRANTY AND SUPPORT

### 9.1. Warranty Information


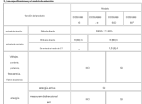


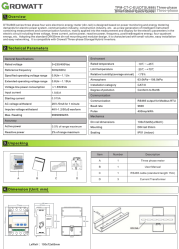
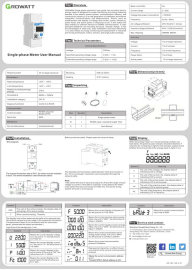
SOBOUR products are typically covered by a manufacturer's warranty against defects in materials and workmanship. The specific duration and terms of the warranty may vary. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the product packaging or contact your retailer.

### 9.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact SOBOUR

customer support or your authorized distributor. Have your product model number and purchase details ready when contacting support.

Related Documents - DDSU666, DTSU666

 	<p><a href="#">DDSU666 Series DIN Rail Single-Phase kWh Meter Technical Specifications</a></p> <p>Detailed technical specifications and features of the CHNT DDSU666 series single-phase DIN rail kWh meter, including measurement capabilities, communication interfaces, and performance parameters.</p>
	<p><a href="#">DDSU666 Single-Phase Smart Meter User Manual</a></p> <p>Comprehensive user manual for the nJoy DDSU666 Single-Phase Smart Meter (SIAMETER1P666CU01H). Covers applications, features, technical specifications, installation, wiring, troubleshooting, and MODBUS-RTU communication protocol.</p>
	<p><a href="#">DDSU666 Single Phase Smart Meter Operation Manual</a></p> <p>Comprehensive operation manual for the Zhejiang Chint DDSU666 single-phase smart meter, detailing its features, specifications, installation, wiring, and communication protocols.</p>
	<p><a href="#">Growatt TPM-CT-C-EU(DTSU666) Three-phase Smart Meter Quick Guide   Installation &amp; Operation</a></p> <p>Comprehensive guide for the Growatt TPM-CT-C-EU(DTSU666) three-phase smart meter. Covers technical specifications, unpacking, detailed installation instructions, wiring diagrams, display parameters, troubleshooting, and service contact information.</p>
	<p><a href="#">Growatt DDSU666 Single-phase Meter User Manual</a></p> <p>User manual for the Growatt DDSU666 single-phase electronic energy meter. This guide details installation, technical parameters, display functions, and service contact information for efficient power monitoring.</p>

DTSU666 Three-phase Smart Meter

User Manual  
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Zhejiang Chint Instrument & Meter Co., Ltd.  
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Comprehensive user manual for the DTSU666 Three-phase Smart Meter by Zhejiang Chint Instrument & Meter Co., Ltd. Covers installation, operation, technical specifications, troubleshooting, and maintenance.