



SMG666-1PF1-L1

Smart Gateway

Quick Guide

Version: 001.0001-01

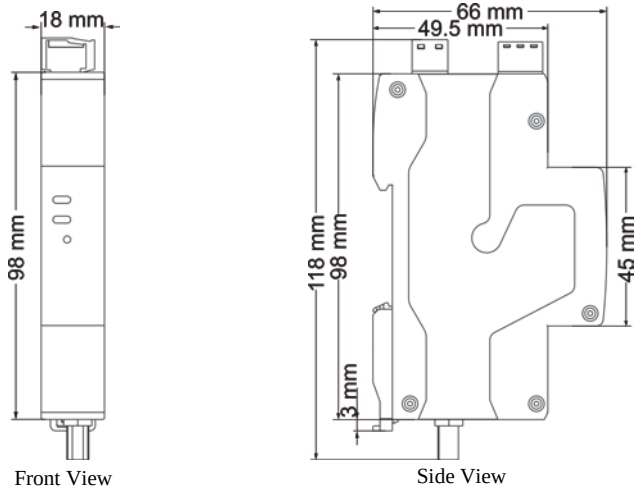
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1 Product Description

1.1 Outline and mounting dimensions



 NOTE

The unnoted tolerance is $\pm 1\text{mm}$;
The appearance, size and information are subject to actual objects.

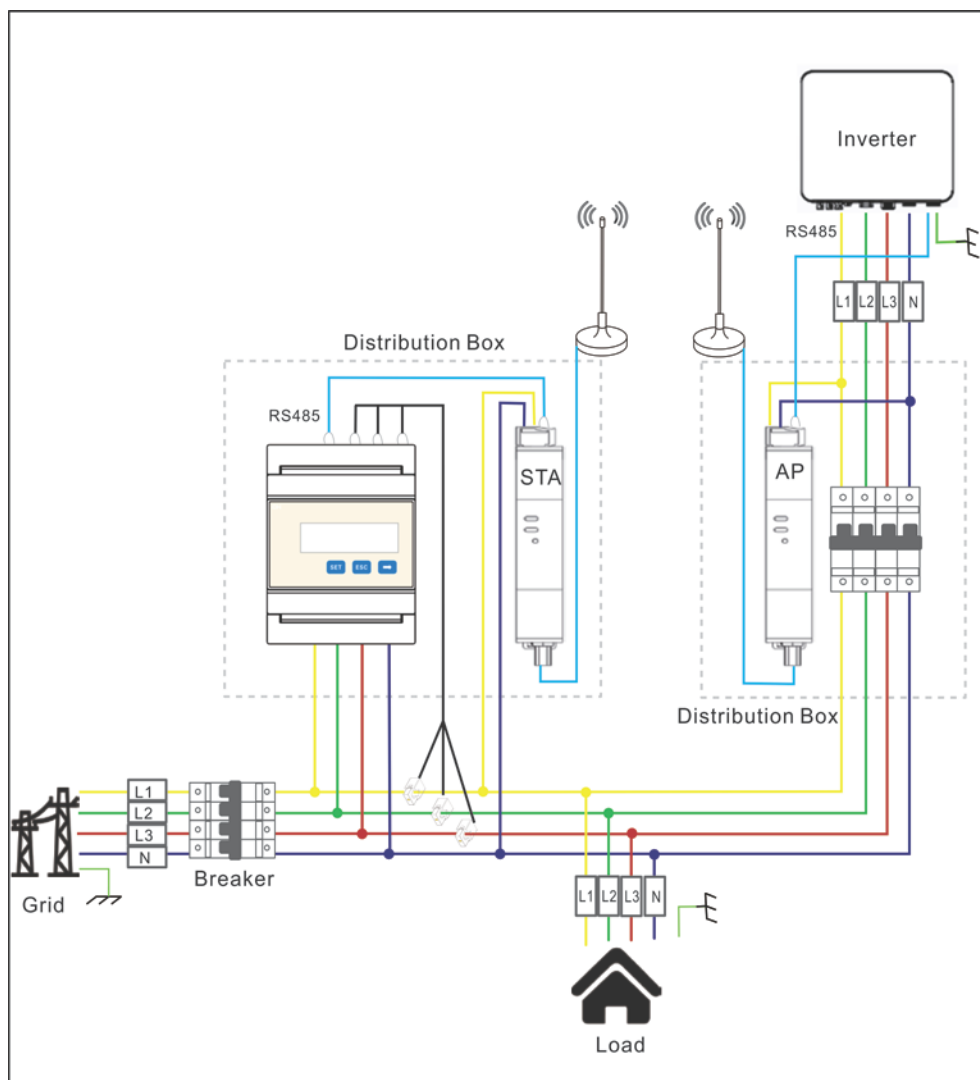
1.2 Product performance specification

Project name	Technical indicators
Working mode	AP(master device) / STA (slave device)
Communication method	RS485 / wireless communication
Network Protocol	IEEE 802.11ah
Operating voltage	85 Vac~277 Vac
Maximum power	2W
Operating temperature	-25°C~+55°C
Wireless frequency	868MHz
Wireless transmission distance	$\leq 200\text{m}$
Way to install	DIN35mm Rail mounting

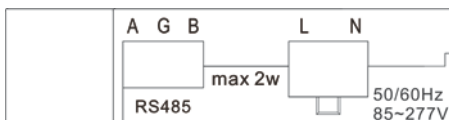
 NOTE

The actual distance of wireless transmission is affected by the external environment. The longer the distance, the higher the risk of packet loss, the longer the transmission time, and the number of bytes of a single transmission is controlled within 200 bytes.

2 Typical wiring diagram



2 Installation and use instructions



Serial port and auxiliary terminal wiring diagram



Antenna interface diagram

Step 1: AP connected to the inverter (active sending command equipment), STA connected to the electricity meter (required to obtain data equipment);

Step 2: Power on the device after the connection is completed;

Step 3: Check whether the AP and STA indicator light is normal, abnormal cases, check 6 common fault diagnosis, analysis, elimination methods for processing;

Step 4: If you need to add STA connection under the AP device, press the RST key for 3S, the COMM indicator blinks red, indicating that the device works in pairing mode. Press the same button for the device to be paired within 1 minute. After pressing the button, the red light blinks first, and then the green light turns on.

CAUTION

The gateway connection antenna needs to be installed outside the cabinet or the machine applicable to this product to ensure stable signal transmission.

4 LED indicator function

LED Light Type	LED status	Status Description
RUN Light (RUN)	Steady green	RS485 communication is normal
	Blinking green	The RS485 communication is abnormal or the RS485 communication is not normal
	The green is off.	The device is not powered on
Communication Light (COMM)	Steady green light	The AP and STA are successfully connected
	Green flashing	Wireless data transfer between the AP and STA (AP/STA flashing: AP/STA transfers data)
	Red light flashing	The AP and STA make a paired connection
	Steady red	The AP and STA failed to connect

5 Diagnosis, analysis and troubleshooting of common faults

Symptom of failure	Cause analysis	Elimination Method
The lights do not come on after the device is powered on	The supply voltage is abnormal.	1. Check that the power cable is connected correctly 2. Check that the power supply voltage is in the range of 85~277V
RUN indicator The green light blinks at short intervals	485 Communication is abnormal.	1. Check that the 485 connection is correct 2. The AP end confirms whether the inverter sends the command, the STA end confirms whether the meter can communicate normally online, and the AP and STA data transmission is normal
The COMM light is steady red	The AP failed to connect to the STA	1. Verify that both the AP and STA are online 2. Confirm whether the distance between AP and STA exceeds the limit distance of 200m 3. Confirm whether AP and STA are factory self-pairing devices (whether the SN number is consistent), and re-pairing operation is performed on site for non-self-pairing devices
Abnormal data	Abnormal data parsing	1. Verify that the sent command is the desired command 2. Verify that the baud rate and verification method of the gateway and connected device are consistent