

Smart Gateway

SP4-WiSUN-GW-N/G

Quick installation manual

1. Must Read Before Installation

⚠ CAUTION

When carrying out various operations of this product, the relevant equipment precautions and special safety instructions provided by SolarPilot Energy must be strictly observed.

It is strictly forbidden to open the case, disassemble and repair the product without authorization to ensure the safety of personnel. In case of such necessary services, find a trained or qualified professional technician to do it.

The operators should comply with local regulations.

⚠ WARNING

Installation or maintenance operations must follow the sequence of steps of the task, and do not change the structure and installation order of the equipment without the manufacturer's permission.

The installation, electrical connection, maintenance, troubleshooting, and replacement operations of the optimizer must be carried out by a professional electrical technician.

⚠ DANGER

Installation, electrical connection, maintenance, troubleshooting, and replacement operations of the gateway must be carried out by a professional electrical technician.

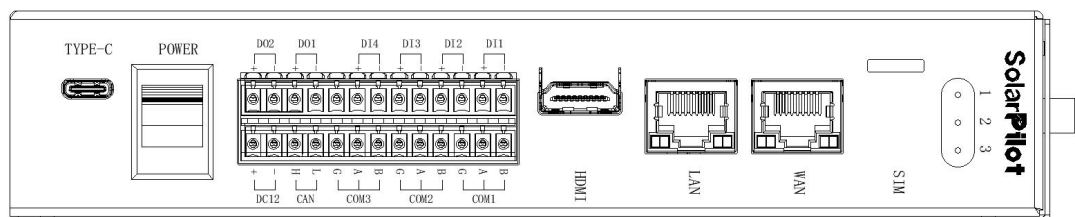
It is forbidden to install the gateway in a location where the water can be submerged for a long time.

Malpractice or improper work during installation or operation might cause fire. DO NOT store flammable and/or explosive materials surrounding the areas where the gateway are installed.

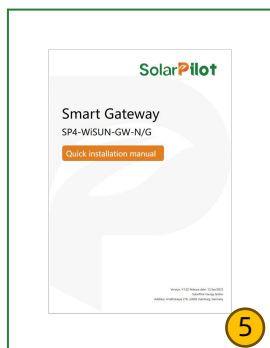
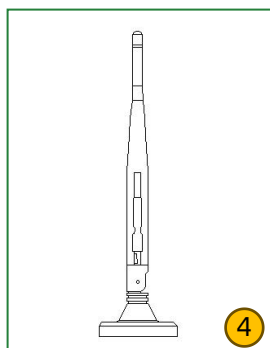
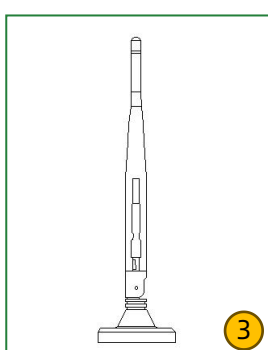
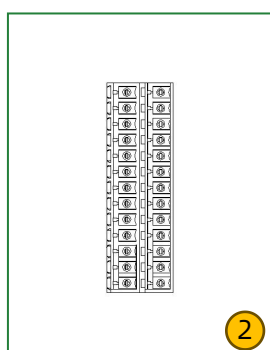
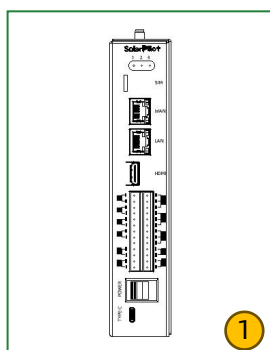
2. Product Introduction

SP4-WiSUN-GW series products are SolarPilot data acquisition products, which use Wi-SUN wireless solutions to collect information and data from field optimizers and send data to SolarPilot cloud platform via Ethernet or 4G communication.

Through the SP4-WiSUN-GW series gateway, users can obtain PV module-level data and alarm information, and realize remote and local shutdown at the same time, realizing remote operation and maintenance of PV systems on the SolarPilot data platform . SP4-WiSUN-GW works with SP4 series optimizers or SP5 series RSD.

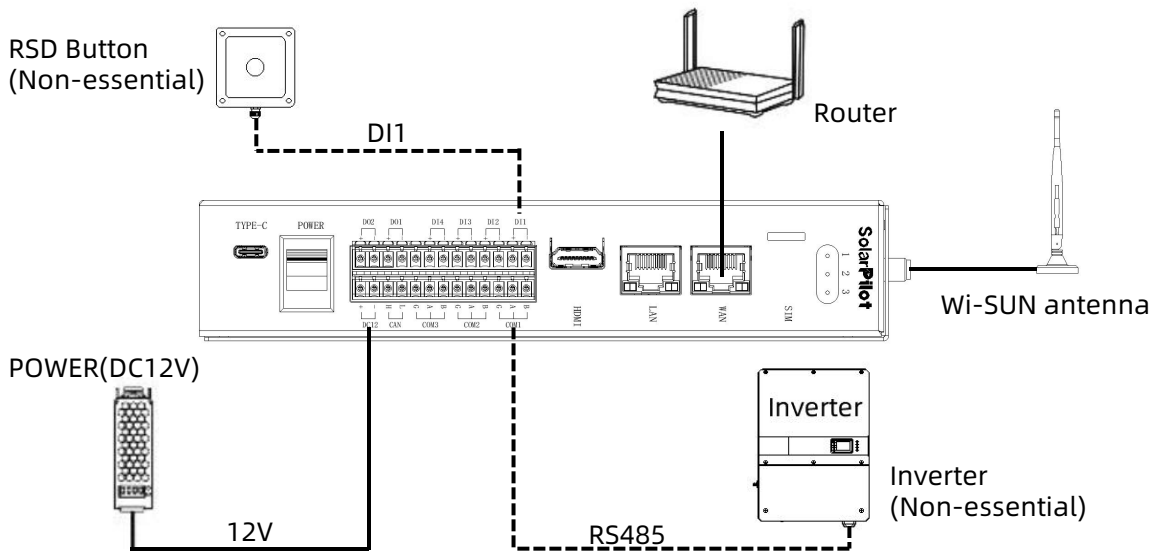


3. Scope of Supply



Number	Description
1	Gateway
2	Terminal block
3	Wi-SUN Antenna
4	4G Antenna (only for 4G version)
5	Quick installation manual
6	Certificate

4. Topology of The Gateway System



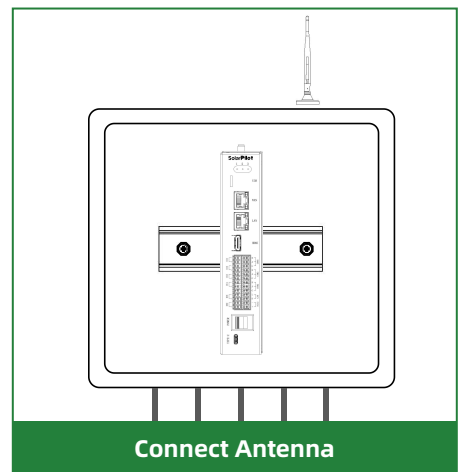
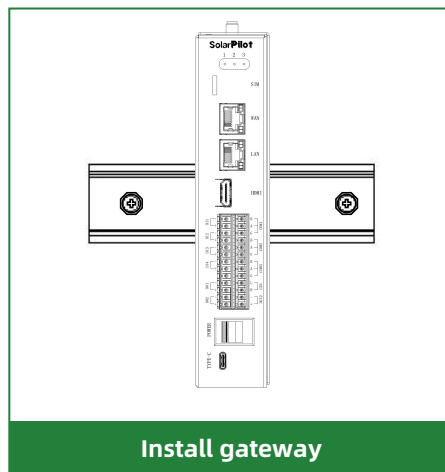
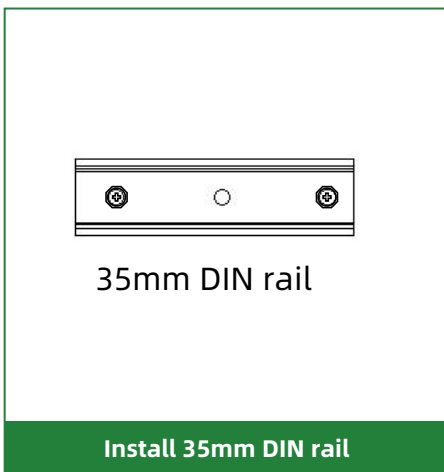
5. Installation Steps

① Connect cables

Connect cables through the terminal block according to the screen printing on the shell.

- (1) Connect to DC12V power supply;
- (2) Connect to router;
- (2) Connect to Inverter RS485 (If not needed, you can leave it unconnected);
- (3) Connect to quick break button (If not needed, you can leave it unconnected);

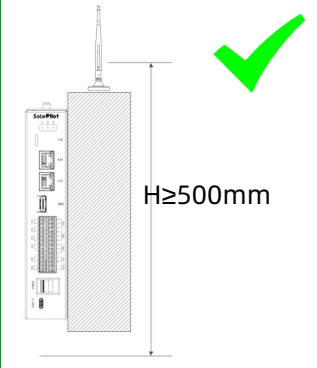
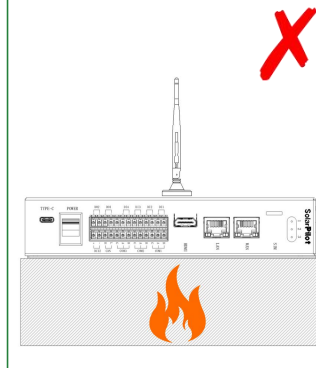
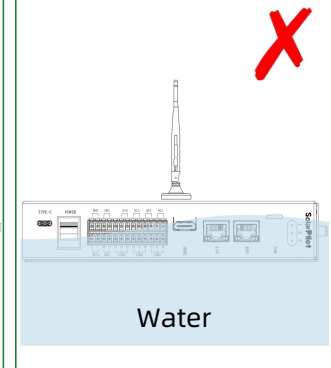
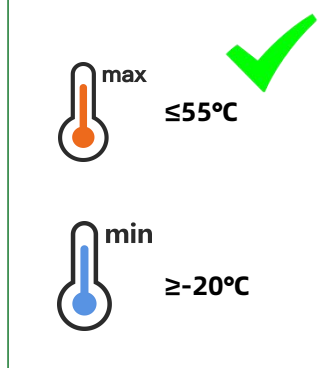
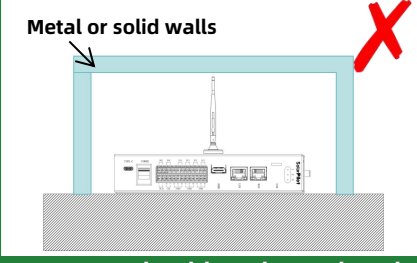
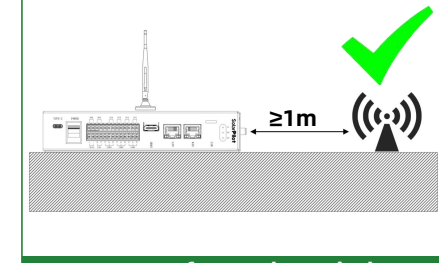
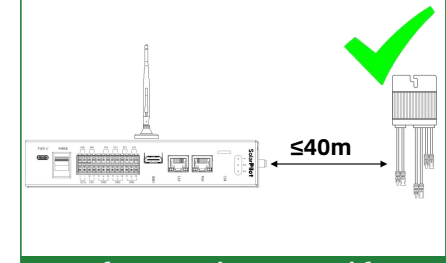
② Install gateway



NOTE

The antenna should be placed outside the combiner box, not enclosed in a metal shell, and away from other wireless devices.

③ Installation Instructions

 <p>Installation height $\geq 500\text{mm}$</p>	 <p>Stay away from fire</p>	 <p>No water immersion</p>	 <p>Operating temperature range</p>
 <p>Antenna should not be enclosed by metal or solid walls</p>	 <p>Stay away from other wireless devices</p>	 <p>Refer to product manual for details</p>	

6.APP Operation Guide

① Download the app

Method 1:

Search "SolarPilot Energy" in the App Store, Google Play or other application market on smart phone;



SolarPilot Energy APP icon

Method 2:

Scan the QR code to download the APP in right hand.

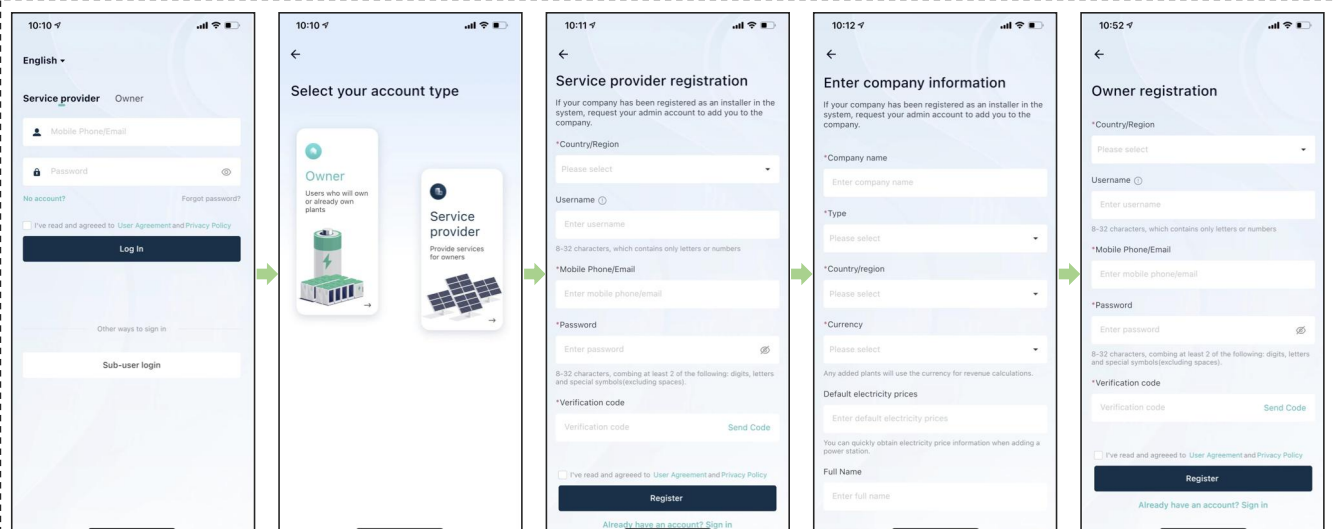


QR code for Android



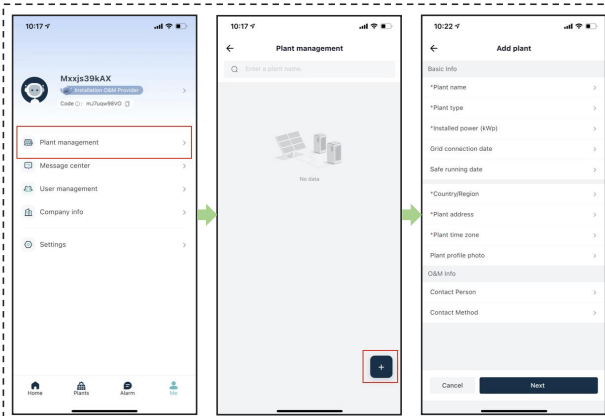
QR code for IOS

② Registration and Login



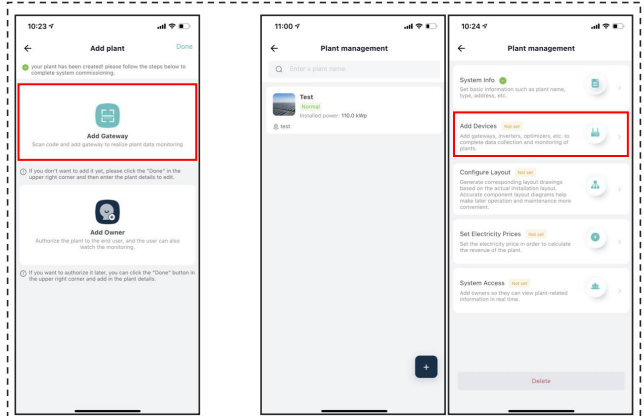
③ Create a power plant

Plant management



Log in to the account you just registered, click [Me] -> [Plant Management] -> [+] to add a new power plant. Follow the prompts to improve the basic information of the plant.

Add Gateway



Method1

Method2

Method1: Directly add gateway after completing the plant information.

Method2: Click [Me] -> [Plant Management] -> Plant->[Add Devices] to add gateway.

④ Configure the gateway

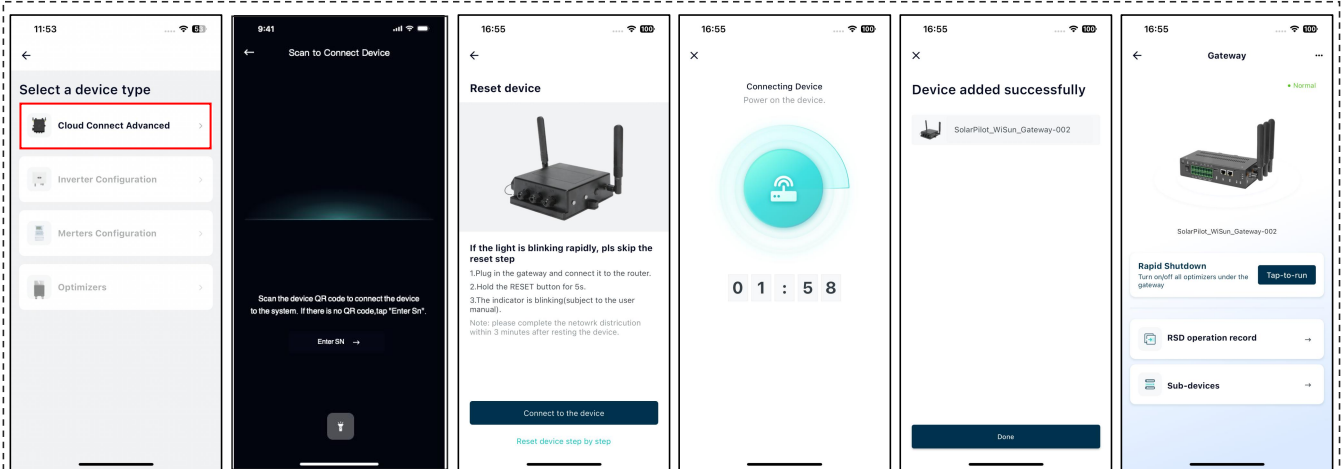
Confirm gateway working status



- 1) LED1 should be always on.
- 2) LED2 should be flashing or always on.

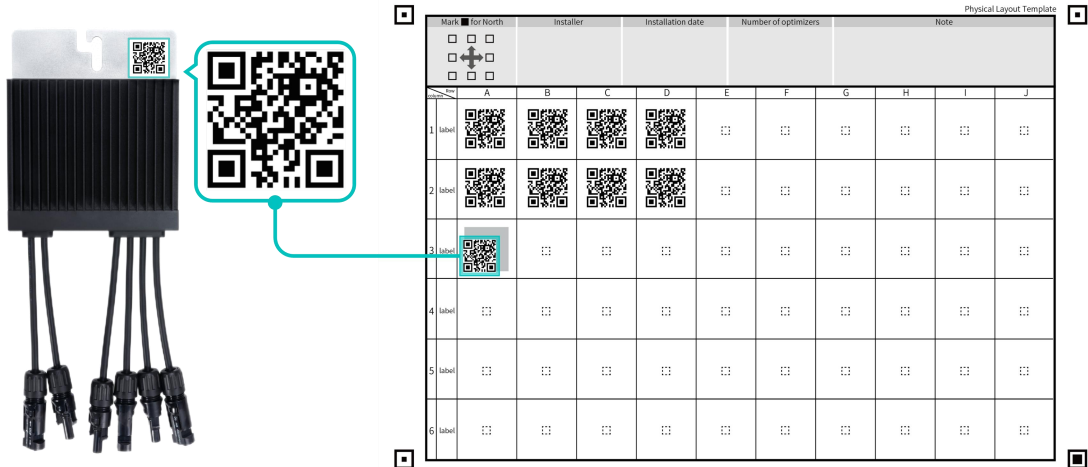
Indicator Lights	Indicator status	Device status
LED1(Power)	Always off	Abnormal power supply
	Always on	Normal power supply
LED2(Network)	Always off	Abnormal network
	Flashing	Normal network, gateway is not activated
LED3(Data)	Always on	Normal network, gateway is activated
	Always off	Data transfer service is disabled
	Always on	Data transfer service is enabled

Scan QR code or enter SN code to add gateway



⑤ Add optimizer and generate Layout

Stick SN Label on the physical layout template



Add optimizer and generate layout

17:07

Plant management

1600W

System Info

Add Devices

Configure Layout

Electricity Prices

Create Scene

Select Plant

17:07

Physical layout

Click [Configure Layout]

Set layout

Upload Image

Support multiple uploads

17:07

Physical layout

Generate Layout

09:28

Connect to device

Add devices

17:43

Device added successfully

Complete

⑥ Other configurations

Add Owner

Fill in the owner information

Electricity Prices

Fill in the electricity price

Automatic shutdown

Create an auto-shutdown scenario

7. Execute Recover Output (Very Important)

The optimizer works in RSD mode by default and needs to recover output, otherwise the PV system will work abnormally.

Recover output

All optimizers work normally