SolarPilot

Smart Gateway

SP4-WiSUN-GW-N/G

Quick installation manual

1.Must Read Before Installation

SolarPilot

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.
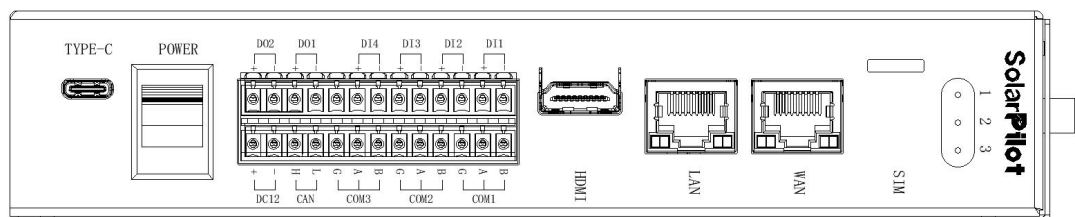
3.Scope of Supply
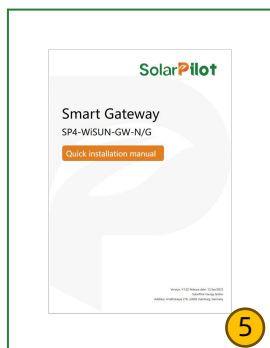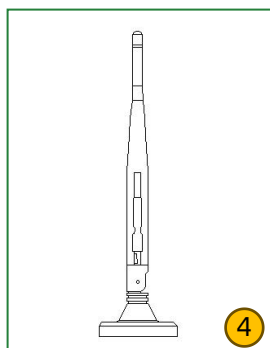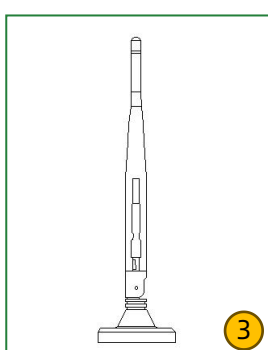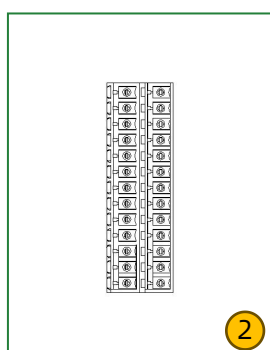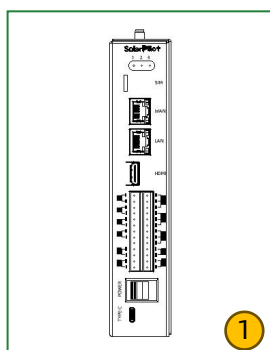

Number	Description
1	Gateway
2	Terminal block
3	Wi-SUN Antenna
4	4G Antenna (only for 4G version)
5	Quick installation manual
6	Certificate

4.Topology of The Gateway System

RSD Button
(Non-essential)

DI1

Router

Wi-SUN antenna

POWER(DC12V)
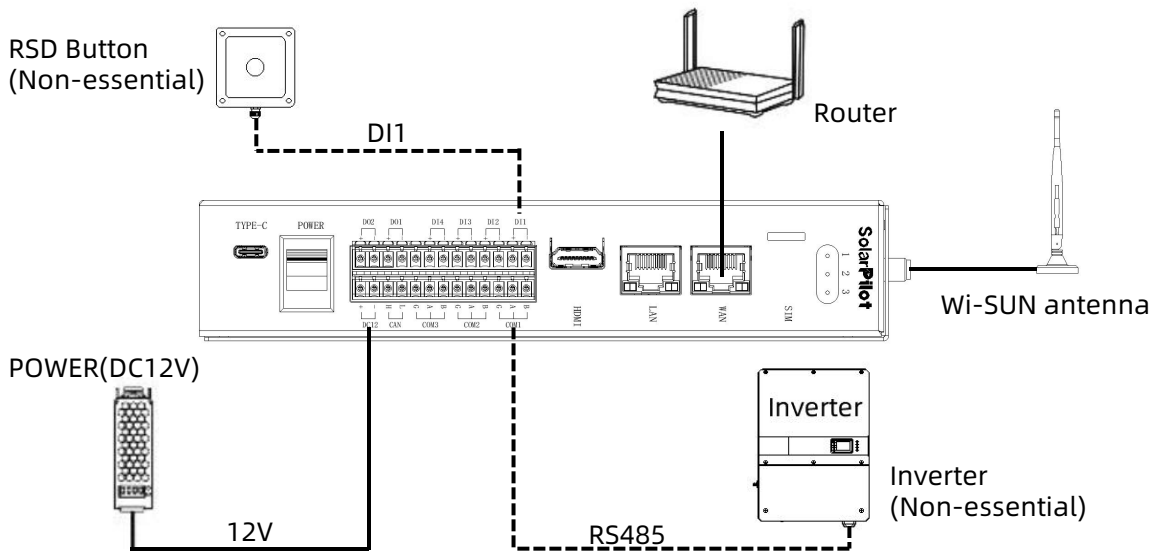
12V

Inverter

Inverter
(Non-essential)

RS485

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

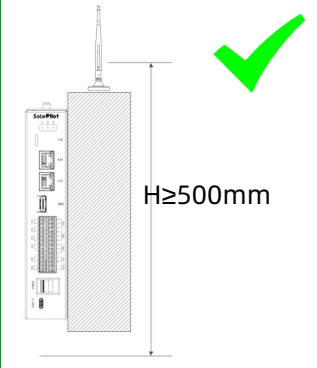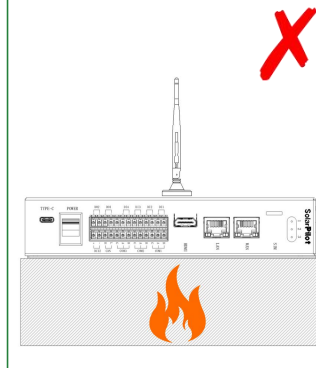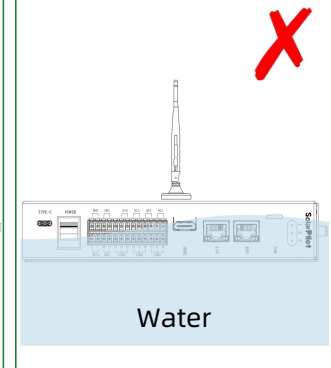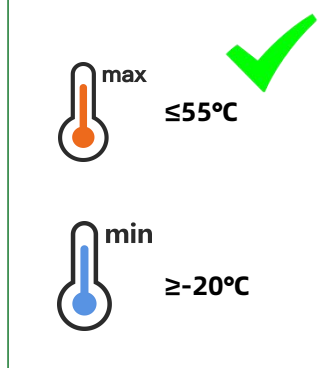|		
35mm DIN rail		
Install 35mm DIN rail	**Install gateway**	**Connect Antenna**
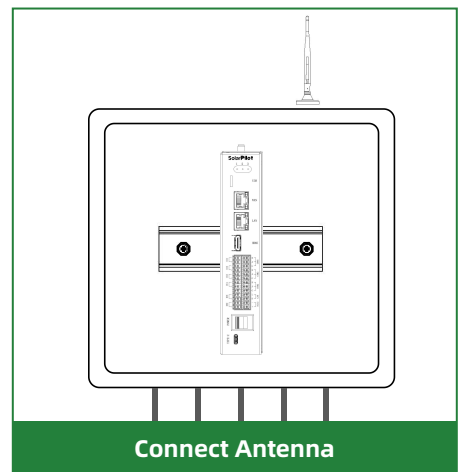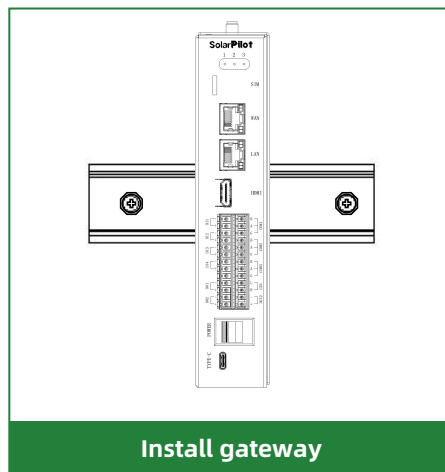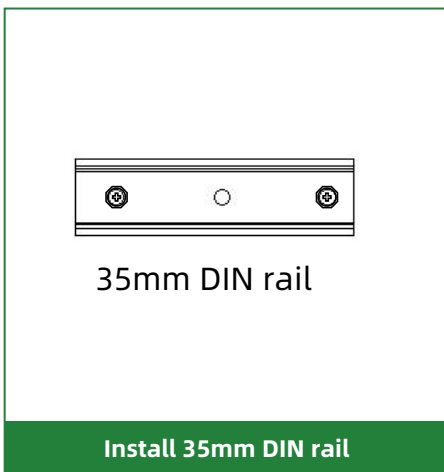
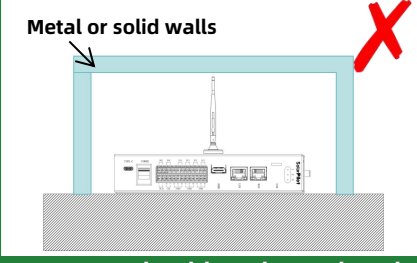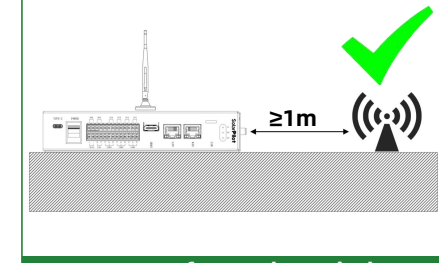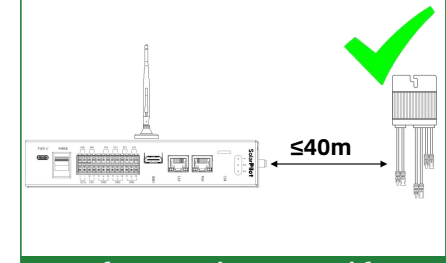### 📖 NOTE

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

③ Installation Instructions

Installation height≥500mm	Stay away from fire	No water immersion	Operating temperature range

Antenna should not be enclosed by metal or solid walls	Stay away from other wireless devices	Refer to product manual for details

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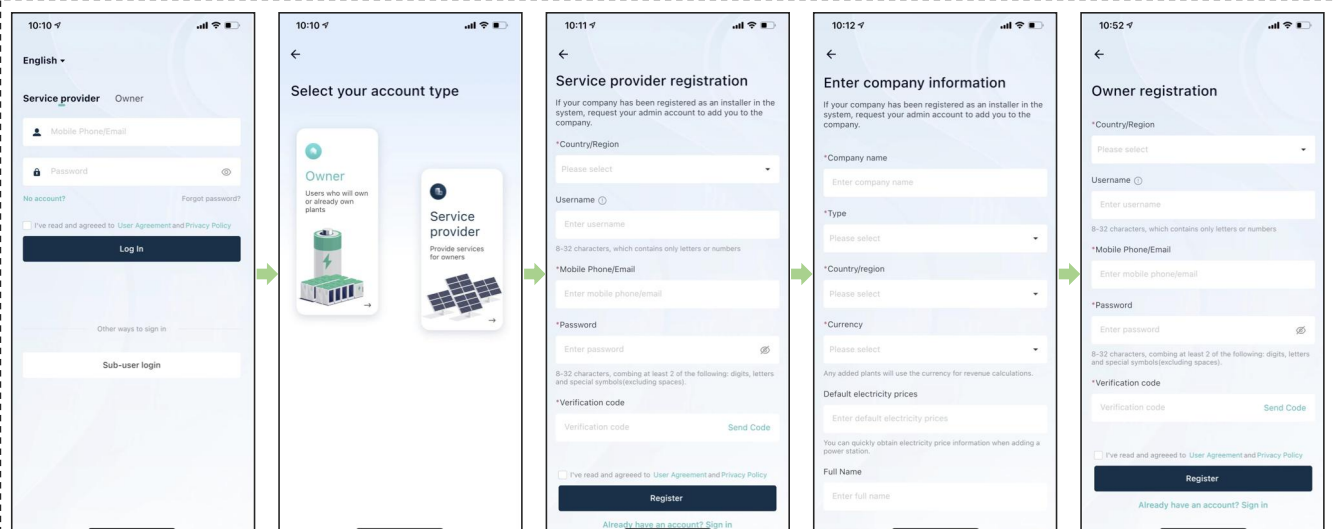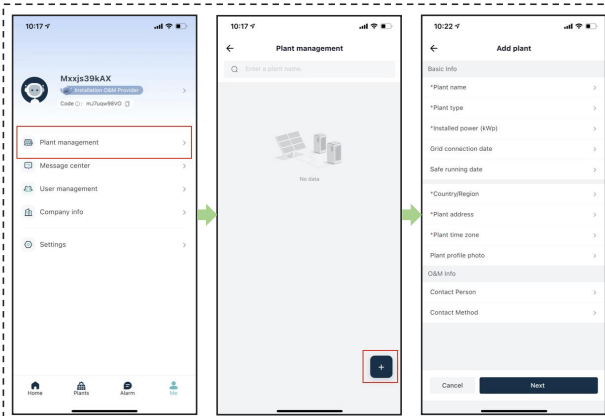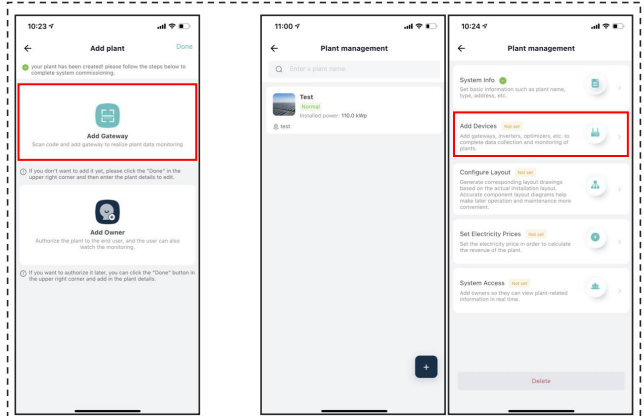click [Me] -> [Plant Management] -> [+] to add a new power plant.
Follow the prompts to improve the basic information of the plant.

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
	Always on	Normal network, gateway is activated
LED3(Data)	Always off	Data transfer service is disabled
	Always on	Data transfer service is enabled

Scan QR code or enter SN code to add gateway

Stick SN label on the physical layout template
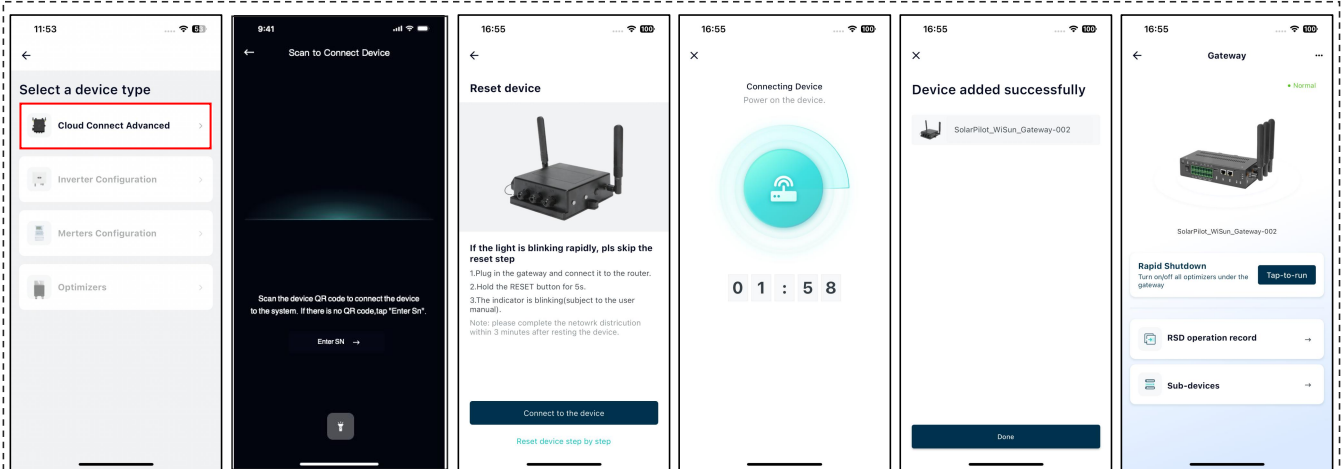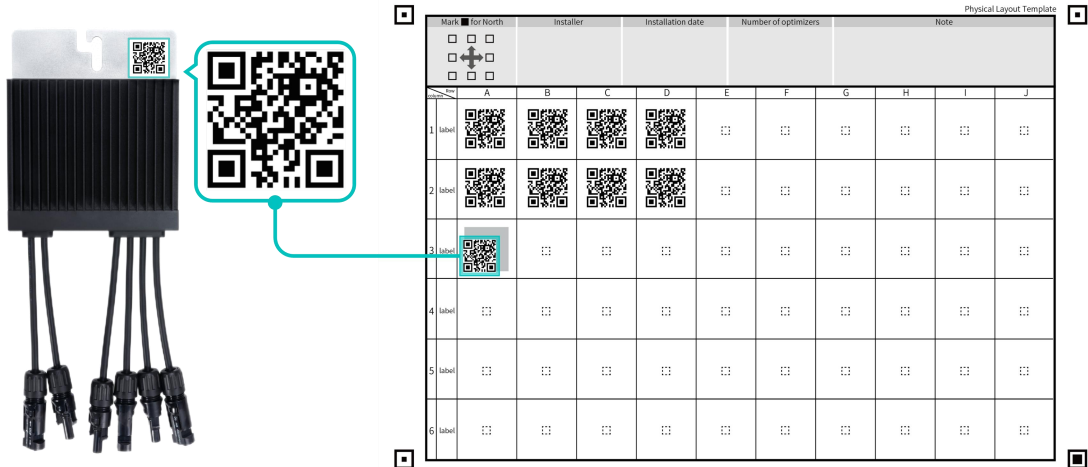
Add optimizer and generate layout

Select Plant	Click [Configure Layout]	Set layout	Upload Image	Support multiple uploads

		Generate Layout	Add devices	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