# Solar **Pilot**

# Smart Gateway

# SP1-Zigbee-GW-W

Quick installation manual

Version: V1.02 Release date: 13/Jan/2025 SolarPilot Energy GmbH Address: Arndtstrasse 27b, 22085 Hamburg, Germany **1.Must Read Before Installation** 

#### 

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.

#### 

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

SP1-Zigbee-GW series products are SolarPilot Data Acquisition products. They use a 2.4G Zigbee solution to collect information and data from field optimizers and send data to SolarPilot Cloud Computing Platform through Ethernet, Wi-Fi.Through SP1-Zigbee-GW, users can obtain module-level data and alarms, and achieve remote and local shutdown. Remote operation and maintenance of photovoltaic systems can be realized anytime and anywhere on the SolarPilot data platform. SP1-Zigbee-GW works with SP1/SP2/SP3 series optimizers.



#### 3.Scope of Supply



#### 4.Topology of The Gateway System

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#### **5.Installation Steps**

#### ① Connect cables

- (1) Connect to DC12V power supply;
- (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 back panel
```





#### **③** Connect Ethernet cable

#### **NOTES:**

If you use the AP distribution network method, this steps can be ignored. Refer to [**Configure the gateway**] $\rightarrow$ [**Method2: AP distribution network**]



### **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;

#### Method 2:

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



SolarPilot Energy APP icon



QR code for Android

4990

QR code for IOS

#### **②** Registration and Login



#### **③** Create a power plant





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#### **④** Configure the gateway

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#### **⑤** Add optimizer and generate Layout

#### Stick SN label on the physical layout template

	Mark for North Installer			Installation da	ate Nu	Number of optimizers		Physical Layout Templa Note				
	- Rev	A	В	C	D	E	E	G	н		J	
1	label					0		a	n	n		
2	label							0	8	в	в	
3	label 2							0				
4	label											
5	label	0		0	0	0		0	0		B	
6	label	0		Ш	а			0	a	в	Ш	
- 12												





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#### **6** Other configurations





### 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.

