



Quick Installation Guide

Cloud Easy Smart Gigabit PoE Switch



Wi-PMS306GF-UPS-I

www.wireless-tek.com

1. Package Contents

- Wi-PMS306GF-UPS-I



Switch x 1



1xScrew Driver



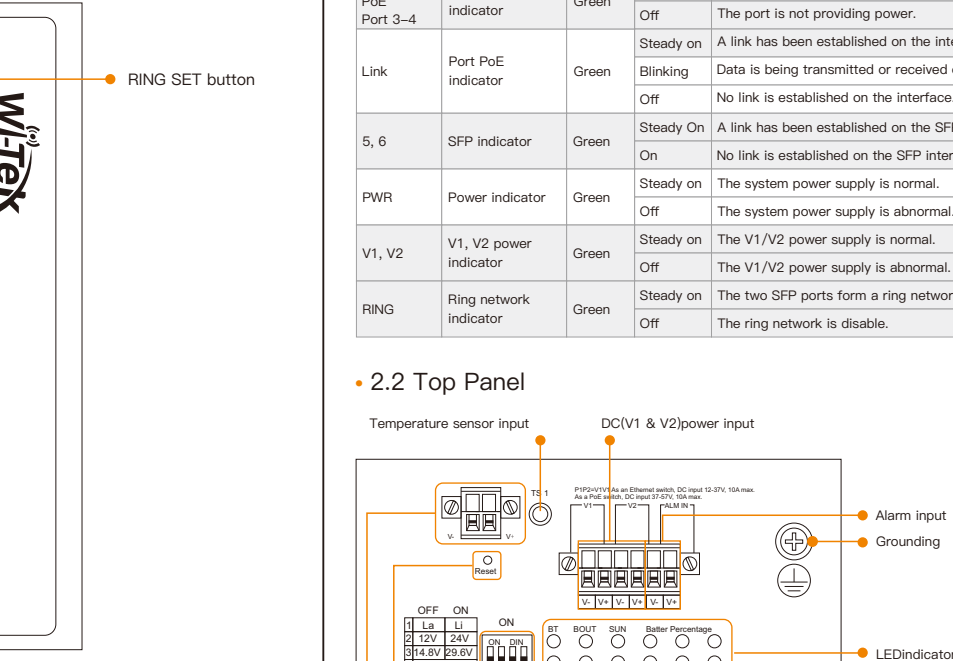
1xTemperature Sensor



Quick Installation Guide x 1

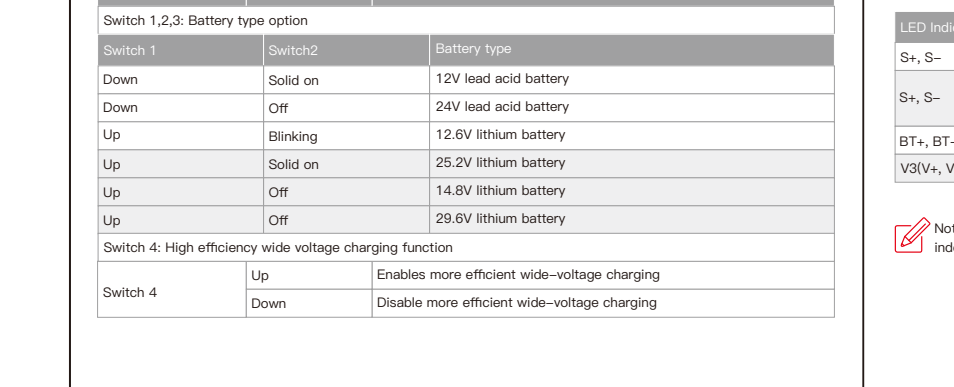
2. Hardware Introduction

2.1 Front Panel



RING SET: press over 10s to form a RING network (comply with MSTP) between the two SFP ports. Press over 15s to turn off the Ring network.

2.2 Top Panel



V1&V2 power input: 37-57V DC (Enable PoE out, cannot charge the battery), 12-37V DC (Disable PoE out, cannot charge the battery)

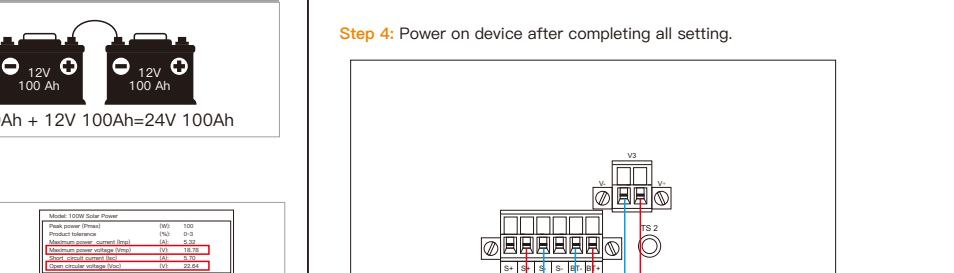
| Port LED Indicators | LED Name | Color | Status | Description |
|---------------------|------------------------|--------|---------------------------------|---|
| PoE Port 1-2 | PoE indicator | Green | Steady on | The port is providing power in at/at passive PoE mode. |
| | | Orange | Steady on / 1/4s Blinking / Off | Failed to identify the battery. The port is providing power in 24V passive PoE mode. The port is not providing power. |
| PoE Port 3-4 | PoE indicator | Green | Steady on / Off | The port is providing power. The port is not providing power. |
| | | Green | Steady on / Off | A link has been established on the interface. Data is being transmitted or received on the interface. |
| Link | Link indicator | Green | Blinking / Off | A link is established on the interface. No link is established on the interface. |
| | | Green | Steady on / Off | A link has been established on the SFP interface. No link is established on the SFP interface. |
| 5, 6 | SFP indicator | Green | Steady On / On | A link has been established on the SFP interface. No link is established on the SFP interface. |
| | | Green | Steady on / Off | The system power supply is normal. The system power supply is abnormal. |
| PWR | Power indicator | Green | Steady on / Off | The system power supply is normal. The system power supply is abnormal. |
| | | Green | Steady on / 1/4s Blinking / Off | The V1/V2 power supply is normal. The V1/V2 power supply is abnormal. |
| RING | Ring network indicator | Green | Steady on / Off | The two SFP ports form a ring network. The ring network is disable. |

| LED Indicator | LED Name | Color | Status | Description |
|---------------|-----------------------------------|-------|-------------------------------------|---|
| BT | Battery status | Green | Steady on | Success to identify the battery and running properly. |
| | | Green | 1/4s Blinking / Off | Failed to identify the battery. No battery detected. |
| VO | Power output indicator | Green | Steady on / Off | The MPPT module is providing power properly. The MPPT module is providing power abnormally. |
| | | Green | Steady on / Off | The battery is discharging and battery capacity is >15%. The battery is end of discharge or not discharge. |
| BOT | Battery Discharging | Green | Blinking / Off | The battery capacity is <15%. The battery is charging and battery capacity is <98%. |
| | | Green | Steady on / Off | The battery is charging and battery capacity is <98%. The battery is full capacity or not charge. |
| BIN | Battery charging status indicator | Green | Steady on / Off | The solar power input is normal. The solar power input is normal. |
| | | Green | 1/2s Blinking / 1/4s Blinking / Off | The solar power input is in delayed charging, the time is 10 minutes. The solar power input is abnormal. There is no solar power input. |
| SUN | Solar power input indicator | Green | Steady on / Off | The solar power input is normal. The solar power input is abnormal. |
| | | Green | 25%, 50%, 75%, 100% | Percentage of battery capacity |

| DIP Switch | Status | Description |
|--|----------|--|
| Switch 1,2,3: Battery type option | | |
| Switch 1 | Switch2 | Battery type |
| Down | Solid on | 12V lead acid battery |
| Down | Off | 24V lead acid battery |
| Up | Blinking | 12.6V lithium battery |
| Up | Solid on | 25.2V lithium battery |
| Up | Off | 14.8V lithium battery |
| Up | Off | 29.6V lithium battery |
| Switch 4: High efficiency wide voltage charging function | | |
| Switch 4 | Up | Enables more efficient wide-voltage charging |
| Switch 4 | Down | Disable more efficient wide-voltage charging |

NOTE: Make sure the DIP switch is set correctly before connecting the battery. If the battery type is configured on web management page of the switch, the DIP Switch is invalid. If the wrong battery parameters is configured in the GUI, flip the DIP switch 4 up and down five times, and all the lights will flash once, the solar controller is restored to the factory configuration.

2.3 Bottom Panel



| LED Indicators | Description |
|----------------|---|
| S+, S- | Solar power input. |
| S+, S- | Another solar panel in parallel with the solar panel of first solar power input socket to obtain greater current input. |
| BT+, BT- | Battery power input. |
| V3(V+, V-) | DC input for battery charging. |

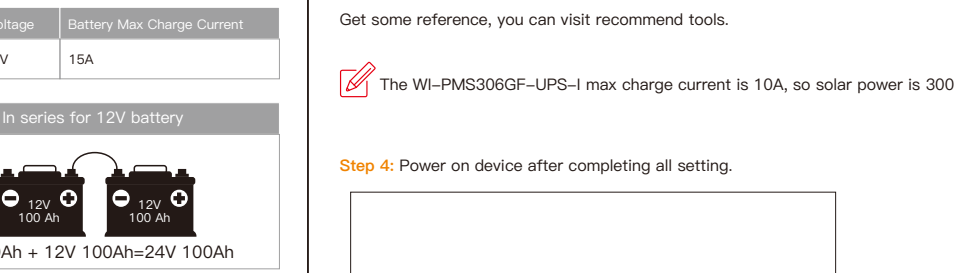
Note: the solar power input and V3 DC input cannot supply power to the switch independently without the battery connection.

Positive to positive, negative to negative.

Please install the Wi-PMS306GF-UPS-I in a proper enclosure or shelter. The Wi-PMS306GF-UPS-I must be grounded.

3. Hardware Installation

Step 1: How to get 12V or 24V voltage battery?



Step 2: How to select a suitable solar panel?

| Product | Battery type | Battery Voltage | Battery Max Charge Current |
|-------------------|--------------------|-----------------|----------------------------|
| Wi-PMS306GF-UPS-I | Lead acid, Lithium | 12V or 24V | 15A |

Step 3: Calculate battery capacity and solar panel power

Recommended tools for reference: UPS Wizard in Wi-Tek Cloud APP. Photovoltaic performance in PVGIS provided by the European Commission

Example: There is 17.5W load in the solar system. If the system should continue working 2 days in the cloudy & raining days, and discharge capacity is 80% (means remain 20% capacity after 2 days), the battery capacity is about

$$17.5W * 2 \text{ days} * 1.2 (\text{system loss coefficient}) / 80\% (\text{remain 20\% capacity}) = 1260 \text{ Wh}$$

If the battery should be charge full from empty in 3 sunny days, the solar panel is about

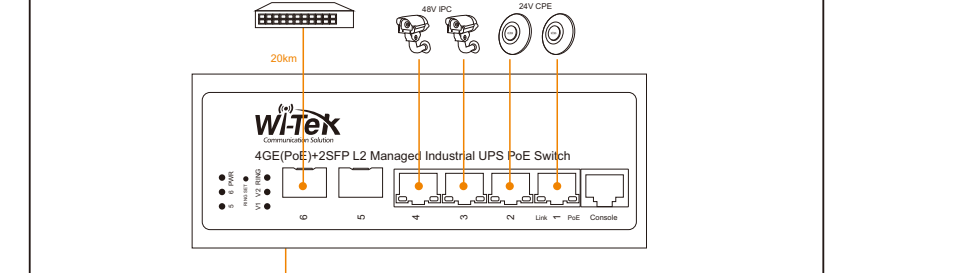
$$17.5W * 24 \text{ hours} * 2.5 \text{ days} + 1260 \text{ Wh} / [(3 \text{ days} * 2.6 (\text{solar panel efficient in days}))] = 300W$$

The solar panel can power up the Wi-PMS306GF-UPS-I, at the same time, charge the battery.

4. Hardware Installation

Step 1: Adjust DIP Switch

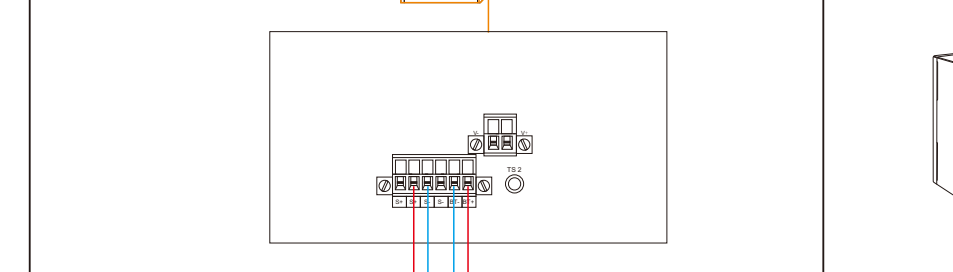
By default, the battery is in use. After the battery is well connected to the Wi-PMS306GF-UPS-I, reference the (Product Overview>Up panel) to check the battery capacity and battery working status.



Step 2: Installing Wi-PMS306GF-UPS-I

Installing Wi-PMS306GF-UPS-I, place the Wi-PMS306GF-UPS-I in a desired location using the wall-mount or Din-rail fixtures.

Wall-Mount



DIN-rail Mount

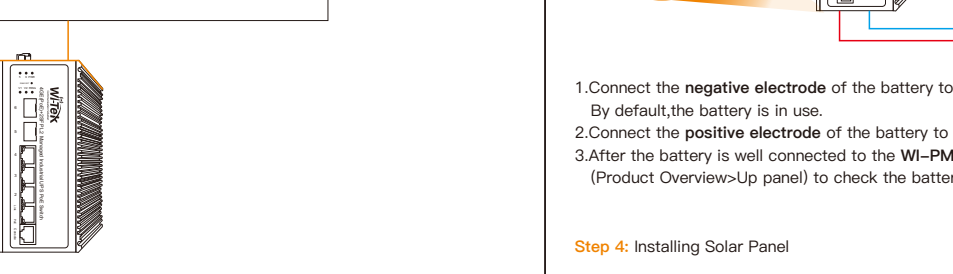


5. Web Management

Step 1: Adjust DIP Switch

If the battery type is configured on web management page of the switch, the DIP Switch is invalid. If the wrong battery parameters is configured in the GUI, flip the DIP switch 4 up and down five times, and all the lights will flash once, the solar controller is restored to the factory configuration.

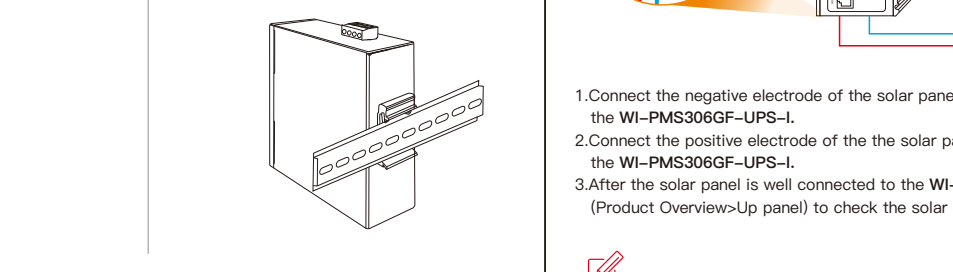
2.3 Bottom Panel



Step 2: Installing Solar Panel

1. Connect the negative electrode of the solar panel to the S- on the Wi-PMS306GF-UPS-I. 2. Connect the positive electrode of the solar panel to the S+ on the Wi-PMS306GF-UPS-I. 3. After the solar panel is well connected to the Wi-PMS306GF-UPS-I, reference the (Product Overview>Up panel) to check the solar energy working status.

Step 3: Power on device after completing all setting.



Power Priority: Solar Panel-DC In-Battery

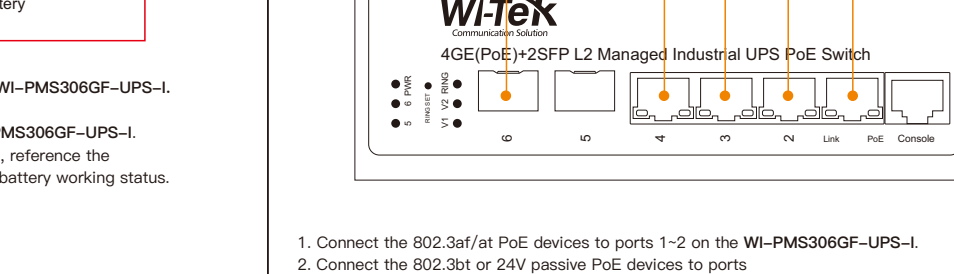
B+: Battery positive electrodes
B-: Battery negative electrodes
S-: Solar negative electrodes
S+: Solar positive electrodes

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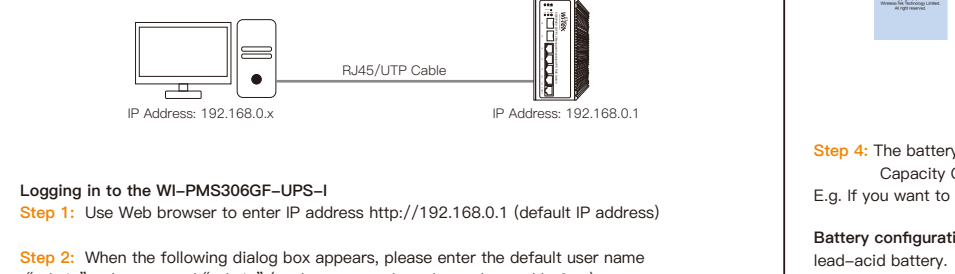
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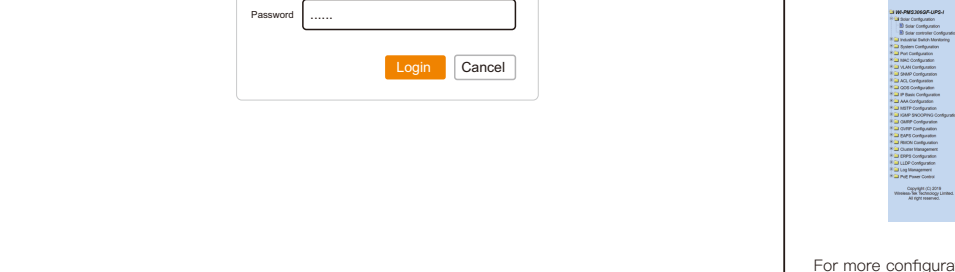
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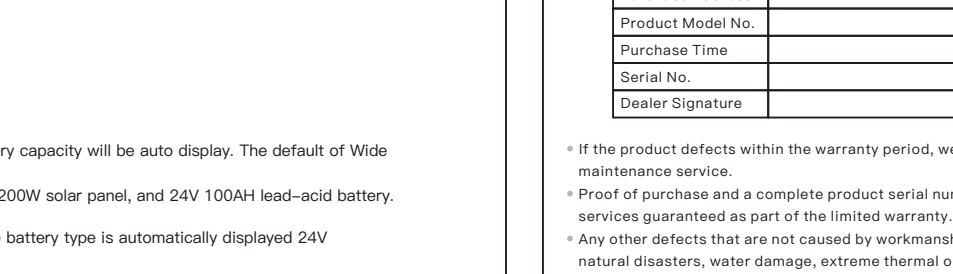
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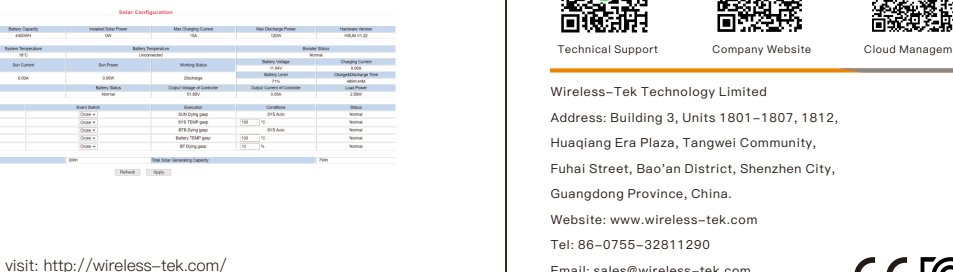
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Warranty Card

| | |
|-------------------|--|
| Username | |
| Address | |
| Telephone No. | |
| Purchase Shop | |
| Purchase Address | |
| Product Model No. | |
| Purchase Time | |
| Serial No. | |
| Dealer Signature | |

* If the product defects within the warranty period, we will provide professional maintenance service.
* Proof of purchase and a complete product serial number are required to receive any services guaranteed as part of the limited warranty.
* Any other defects that are not caused by workmanship or product quality, such as natural disasters, water damage, extreme thermal or environmental conditions, sticker damaged, warranty card loss will disqualify the product from limited warranty.



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