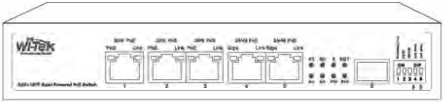
Communication Solution

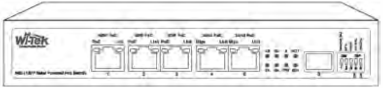
Quick Installation Guide

Solar Powered PoE Switch



WI-PS306GF-UPS Hardware version V4
WI-PS306GF-UPS-15A Hardware version V2

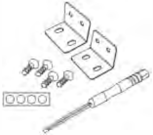
1. Packing Content



1 x Solar Powered PoE Switch

1 x Power Cable
(Except Australia)

1 x 24V@5A Power Adapter
(Except Australia)

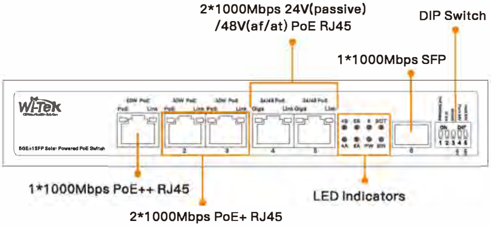


1 x Mounting Accessories
(L-shape bracket, Screw, Screwdriver, Mat)

1 x Quick Installation Guide

2. Appearance

Front Panel



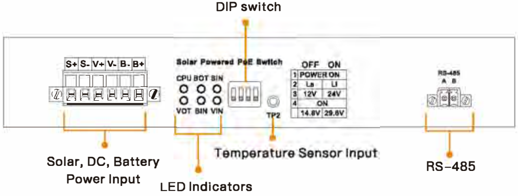
DIP Switch	Status	Description
Switch1: PoE Watchdog	Up	All PoE ports enable PoE watchdog function, which can detect and reboot the offline compliant PoE powered devices automatically.
	Down	Turn off PoE watchdog function
Switch2: VLAN	Up	All downlink ports are isolated from each other, but can communicate with uplink ports.
	Down	Turn off VLAN function and all the ports can communicate with each other.
Switch 3: EXTEND	Up	The data and PoE power's transmission distance of port 1~5 can be up to 250m.
	Down	The data and PoE power's transmission distance of port 1~5 can be up to 100m.
Switch4: Port 4 24V/48V PoE Mode	Up	The port 4 works in 24V passive PoE mode.
	Down	The port 4 works in IEEE 802.3af/at PoE mode.
Switch5: Port 5 24V/48V PoE Mode	Up	The port 5 works in 24V passive PoE mode.
	Down	The port 5 works in IEEE 802.3af/at PoE mode.

LED indicator

LED Indicator	LED Name	Color	Status	Description
PoE	Port PoE indicator	Orange	Steadyon	The port is providing power.
			Off	The port is not providing power.
Link	Port PoE Indicator	Green	Steadyon	A link has been established on the interface.
			Blinking	Data is being transmitted or received on the interface.
			Off	No link is established on the interface.
4A/5A	Port PoE Indicator	Green	SteadyOn	The port 4/5 is providing power in IEEE 802.3af/at PoE mod
4B/5B		Green	SteadyOn	The port 4/5 is providing power in 24V passive PoE mod
6	SFP indicator	Green	SteadyOn	A link has been established on the SFP interface.
			On	No link is established on the SFP interface.
PW	Powerindicator	Green	Steadyon	The system power supply is normal.
			Blinking	The system power supply is normal and the PoE watchdog function is enable.
			Off	The system power supply is abnormal.
BOT	Battery Discharging	Green	Steadyon	The battery is discharging and battery capacity is >15
			Blinking	The battery capacity is <15%.
			Off	The battery is end of discharge or no discharge.
BIN	Battery charging status indicator	Green	Steadyon	The battery is charging and battery capacity is <98%.
			Blinking	The battery is charging and battery capacity is ≥98%.
			Off	The battery is full capacity or not charge.

WI–PS306GF–UPS (Hardware version V4)

• Rear Panel



Power Input	Description
S+, S–	Solar power input.
V+, V–	DC power input.
B+, B–	Battery power input.

LED Indicator	LED Name	Color	Status	Description
CPU	System indicator	Green	Steady on	An error has occurred that effects the system.
			1/2s Blinking	The system is running properly.
			1/4s Blinking	Failedto identify the battery.
			Off	The system software is not running.
VOT	Power output Indicator	Green	Steady on	The MPPT module is providing power properly.
			Off	The MPPT module is providing power abnormally.
BOT	Battery Discharging	Green	Steady on	The battery is discharging and battery capacity is >15%.
			Blinking	The battery capacity is <15%.
			Off	The battery is end of discharge or not discharge.
BIN	Battery charging status indicator	Green	Steady on	The battery is charging and battery capacity is <98%.
			Blinking	The battery is charging and battery capacity is ≥98%.
			Off	The battery is full capacity or not charge.

LED Indicator	LED Name	Color	Status	Description
SIN	Solar power input Indicator	Green	Steady on	The solar power input is normal.
			1/2s Blinking	The solar power input is in delayed charging, minutes.
			1/4s Blinking	The solar power input is abnormal.
			Off	There is no solar power input.
VIN	DC input Indicator	Green	Steady on	The DC input is normal.
			Blinking	The DC input is abnormal.
			Off	There is no DC input.

DIP Switch	Status	Description
Switch 1: Power	Up	Power on the device.
	Down	Turn off the device.

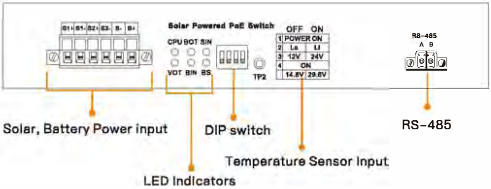
Switch 2,3,4: Battery type option

Switch 2	Switch 3	Switch 4	Battery type
Down	Down	/	12V lead acid battery
Down	Up	/	24V lead acid battery
Up	Down	Down	12.6V lithium battery
Up	Up	Down	25.2V lithium battery
Up	Down	Up	14.8V lithium battery
Up	Up	Up	29.6V lithium battery

the time is 10

WI-PS306GF-UPS-15A (Hardware version V2)

- Rear Panel



Power Input	Description
S1+, S1-	Solar power input.
S2+, S2-	Another solar panel in parallel with the solar panel of S1+&S1- socket to obtain greater current input.
B+, B-	Battery power input.

*Note: Solar and DC power can't be connected at the same time to avoid damage to the device.

LED Indicator	LED Name	Color	Status	Description
CPU	System indicator	Green	Steady on	An error has occurred that affects the system.
			1/2s Blinking	The system is running properly.
			1/4s Blinking	Failed to identify the battery.
			Off	The system software is not running.
VOT	Power output indicator	Green	Steady on	The MPPT module is providing power properly.
			Off	The MPPT module is providing power abnormally.

LED Indicator	LED Name	Color	Status
BOT	Battery Discharging	Green	Steady on
			Blinking
			Off
BIN	Battery charging status indicator	Green	Steady on
			Blinking
			Off
SIN	Power input indicator	Green	Steady on
			1/2s Blinking
			1/4s Blinking
			Off
BS	Battery status indicator	Green	Steady on
			Blinking
			Off

*Note: DIP switch function of WI
same as WI-PS306GF-UPS V4.

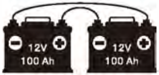
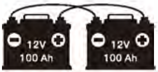
Description
The battery is discharging and battery capacity is >15%.
The battery capacity is <15%.
The battery is end of discharge or not discharge.
The battery is charging and battery capacity is <98%.
The battery is charging and battery capacity is ≥98%.
The battery is full capacity or not charge.
The solar power input is normal.
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.
The battery capacity is >95%.
The battery capacity is >75% and <95%.
The battery capacity is <75%.

–PS306GF–UPS–15A V2 is

3.Hardware Installation

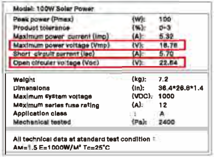
Step 1: How to get 12V or 24V battery?

Product	Battery type	Battery Voltage	Battery Max Charge Current
WI-PS306GF-UPS	Lead-acid Lithium	12V or 24V	5A
WI-PS306GF-UPS-15A			15A

In series for 24V battery	In parallel for 12V battery
	
12V 100Ah + 12V 100Ah=24V 100Ah	12V 100Ah + 12V 100Ah=12V 200Ah

Step 2: How to select a suitable solar panel?

WI-PS306GF-UPS		
12V Solar Panel	Maximum Power voltage(Vmp)	<26V
	Open circuit voltage(Voc)	<32V
24V Solar Panel	Maximum Power voltage(Vmp)	<36V
	Open circuit voltage(Voc)	<45V
WI-PS306GF-UPS-15A		
12V Solar Panel	Maximum Power voltage(Vmp)	<32V
	Open circuit voltage(Voc)	<32V
24V Solar Panel	Maximum Power voltage(Vmp)	<57V
	Open circuit voltage(Voc)	<57V



Model: 100W Solar Power

Peak power (Pmax)	(W):	100
Product tolerance	(%):	0-3
Maximum power current (Imp)	(A):	5.32
Maximum power voltage (Vmp)	(V):	18.78
Short circuit current (Isc)	(A):	5.70
Open circuiter voltage (Voc)	(V):	22.64
Weight	(kg):	7.2
Dimensions	(in):	36.4*26.8*1.4
Maximum system voltage	(VDC):	1000
Maximum series fuse rating	(A):	12
Application class	:	A
Mechanical tested	(Pa):	2400

All technical data at standard test condition :
AM=1.5 E=1000W/M² Tc=25°C

Step 3:
Recom
UPS W
Photov

Examp
If the s
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17.5W
If the b
17.5W
days)]

Note: t
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Get so

Step 4:
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Power

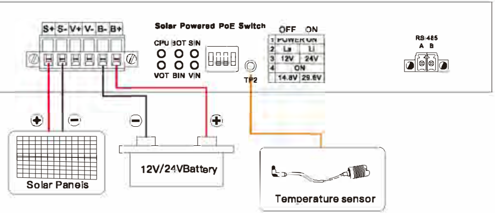
Calculate battery capacity and solar panel power
mended tools for reference:
izard in Wi-Tek Cloud APP
oltaic performance in PVGIS provided by the European Commission

le: There is **17.5W** load in the solar system
ystem should continue working **2 days** in the cloudy & raining days,
scharge capacity is 80%(means **remain 20%** capacity after 2 days),
ttery capacity is about
*** 2 days * 1.2(system loss coefficient) / 80% (remain 20% capacity) =1260 Wh**
battery should be charge full from empty in 3 sunny days, the solar panel is about
*** 24hours * 2.5days + 1260 Wh / [(3 days * 2.6(solar panel efficient in**
= 300W

he Charging days need to be planned according to local weather.
is much different at system loss coefficient due to battery type, temperature,
, cycles and so on, and there is much different at solar panel efficiency due to
er, latitude, month, temperature, install slope and azimuth, system loss,
ness, quality, degree of aging and so on.

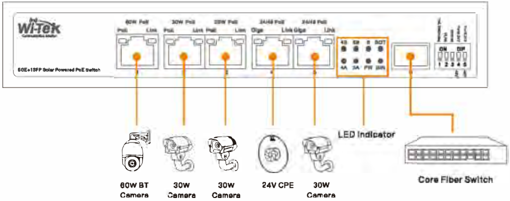
me reference, you can visit recommend tools.

: Power off the Wi-PS306GF-UPS device, connect the solar panel, battery and
mperature sensor(not included).



Priority: Solar Panel, DC IN, Battery

Step 5: Connect the 24V passive or 802.3af/at PoE Powered Devices.



Warranty Card

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

- If the product defects within three months after purchase, we will provide you a new product of the same model.
- If the product defects within the three-year warranty period, we will provide the 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 disaster, water damage, extreme thermal or environmental conditions. sticker damaged, warranty card losing will disqualify the product from limited warranty.

Technical Support Company Website Cloud Management

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