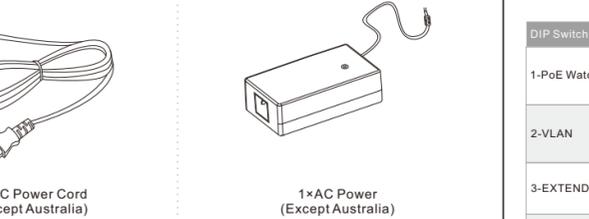
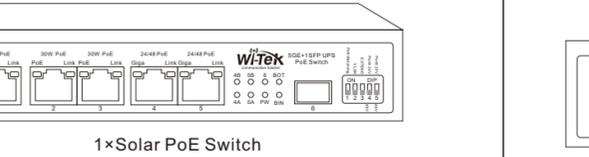


Installation Guide

Unmanaged Solar PoE Switch

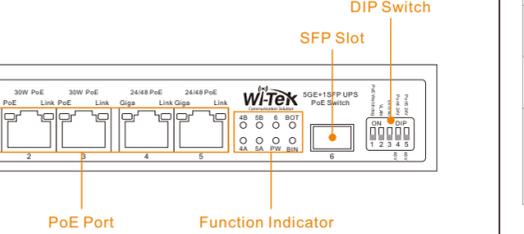
WI-PS306GF-UPS/WI-PS306GF-UPS-15A

1.Package Contents



2.Hardware Introduction

2.1 Front Panel

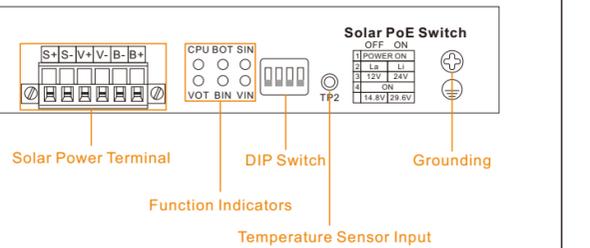


DIP Switch	Status	Description
1-PoE Watchdog	Up	All PoE ports enable PoE watchdog function, which can detect and reboot the offline compliant PoE powered devices automatically.
	Down	Turn off PoE watchdog function
2-VLAN	Up	All downlink ports are isolated from each other, but can communicate with uplink ports.
	Down	Turn off VLAN function
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.
4-Port4	Up	Port 4 can be compatible with 24V forced PoE powered devices
	Down	Port 4 can auto-detect 24V passive or 802.3af/at PoE powered device
5-Port5	Up	Port 5 can be compatible with 24V forced PoE powered devices
	Down	Port 5 can auto-detect 24V passive or 802.3af/at PoE powered device

Port LED Indicators	Status	Description
PoE	Amber	On: Power on Off: No power
	Green	On: Data on TX/RX Off: Link down
Link	Amber	1000Mbps link established
	Green	100Mbps link established
	Off	No link

Function Indicators (Front Panel)	Status	Description	Function Indicators	Status	Description
4B: Port 4-24V PoE	On	24V PoE on	4B: Port 5-24V PoE	On	24V PoE on
	Off	No 24V PoE		Off	No 24V PoE
4A: Port 4-48V PoE	On	48V PoE on	4A: Port 5-48V PoE	On	48V PoE on
	Off	No 48V PoE		Off	No 48V PoE
6:	On	Link established	pw:	On	Power on
	Off	No link		Off	No power
BOT: Battery Discharge	Solid on	Battery is discharging and battery capacity is >15%	BIN: Battery Charging	Solid on	Battery is charging and battery capacity is <98%
	Off	End of battery discharge or no discharge		Off	Battery is charged fully or no charging
	Blink	1/2S: Battery capacity is ≤15%		Blink	The battery is charging, and battery capacity is ≥98%

2.2 Back Panel



Solar Power Terminal
S+ : Solar positive electrode V+ : DC positive electrode B+ : Battery positive electrode
S- : Solar negative electrode V- : DC negative electrode B- : Battery negative electrode

- DIP Switch
1: Switch power system
2: Battery type option
3: Battery voltage option
4: Lithium battery voltage option

Battery Type Option

Switch 2	Switch 3	Switch 4	Battery Type
Off	Off	-	12V lead acid battery
Off	On	-	24V lead acid battery
On	Off	Off	12V lithium battery
On	On	Off	24V lithium battery
On	Off	On	14.8V lithium battery
On	On	On	29.6V lithium battery

Power on device after completing all setting.

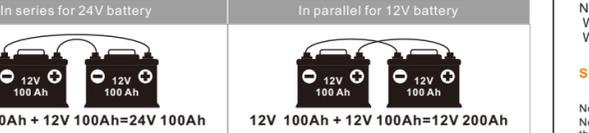
Function Indicator (Back Panel)	Status	Description	Function Indicators	Status	Description
CPU: System operation	On	System crashed	BOT: Battery Discharge	Solid on	Battery is discharging and battery capacity is >15%
	Off	System didn't start successfully		Off	End of battery discharge or no discharge
	Blink	1/2S: Battery is normal 1/4S: Battery is failure		Blink	1/2S: Battery capacity is ≤15%
SIN: Solar energy input	On	Solar energy input	BIN: Battery Charging	Solid on	Battery is charging and battery capacity is <98%
	Off	No solar energy input		Off	Battery is charged fully or no charging
	Blink	1/2S: Solar energy is in delayed charging, the time is 10mins 1/4S: Solar power voltage is wrong, stop charging		Blink	The battery is charging, and battery capacity is ≥98%
VIN: DC input	On	DC input	VOT: PoE Voltage	On	PoE Voltage is normal
	Off	No DC input		Off	No PoE Voltage
	Blink	DC input voltage is error, stop charging			

BOT and BIN indicators are off at the same time and the PoE powered devices are working normally.
Battery has been Charged fully.

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	12V or 24V	5A
WI-PS306GF-UPS-15A	Lithium	12V or 24V	15A



Step 2: How to select a suitable solar panel?

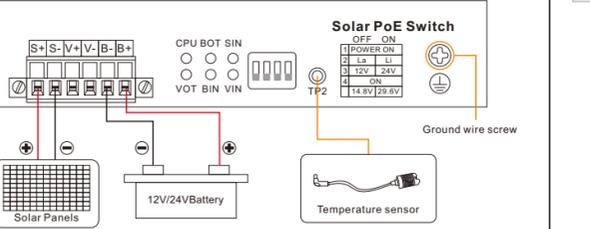
Model	Solar Panel Type	Maximum power voltage(Vmp)	Open circuit voltage(Voc)
WI-PS306GF-UPS	12V Solar Panel	26V	<32V
	24V Solar Panel	36V	<45V
WI-PS306GF-UPS-15A	12V Solar Panel	26V	<30V
	24V Solar Panel	30V	<40V

S+ S- Input Voltage
For 12V Battery: DC 15-26V
For 24V Battery: DC 30-36V

S+ S- Input Voltage
For 12V Battery: DC 15-32V
For 24V Battery: DC 30-57V

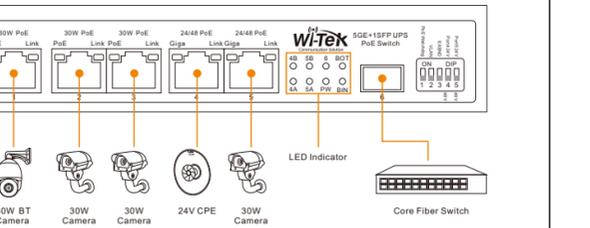
Step 3: Calculate solar panel and battery capacity
Example: Load=15W (1 pc UPS PoE switch, 2 pcs IP camera, 1 pc wireless CPE)
Sun: 8h/day. Solar Panel: 100W. Battery: 12V/40Ah = 480Wh (100% DAY TIME)
Battery capacity at sunrise: 0%
Charge: 100W x 8h x 70% efficiency = 560Wh
Consumption: 15W x 8h = 120Wh
Battery capacity at sunset: 560-120 = 440Wh = 93%
NIGHT TIME
Battery capacity at sunset: 440Wh (93%)
Consumption: 15W x 16h = 240Wh
Battery capacity at sunrise: 440-240Wh = 200Wh = 42% = OK
So you can use 12V/100W solar panel with 12V/40Ah battery.
Note: UPS max. solar power
WI-PS306GF-UPS = 5A x 24V = 120W
WI-PS306GF-UPS-15A = 15A x 24V = 360W

Step 4: Power off the WI-PS306GF-UPS device, connect the solar panel, battery and temperature sensor(not included).
Note: The switch must be grounded.
Note: For model WI-PS306G F-U PS-15A, S+S- and V+V- can't be connected at the same time to avoid the burning device.



Power Priority: Solar Panel, DC IN, Battery

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



Port	Max Power	PoE Standard	Application	PIN
Port 1	60W	802.3af/at/bt	High speed dome camera	1,2,4,5 + 3,6,7,8 -
Port 2-3	30W	802.3af/at	Bullet camera	1,2 + 3,6 -
Port 4-5	30W	Passive 24V /802.3af/at	24V and 48V optional	1,2 + 3,6 - or 4,5 + 7,8 -

PoE Load (if back up 24hours,8hours for solar charge,16hours for battery discharge)	Battery Need	Solar Need
5W Max	12V 14AH	12V 50W
10W Max	12V 27AH	12V 100W
15W Max	12V 40AH	12V 150W
20W Max	24V 30AH	24V 150W
25W Max	24V 35AH	24V 250W
30W Max	24V 40AH	24V 300W

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.



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