

### **Datasheet**

# Solar Powered PoE Switch

WI-PS306GF-UPS-15A

Hardware version: V2 Software version: V1.34

New Upgrade: RS-485 for WI-IOT100 to Cloud Management!



### Overview

Wi-Tek Solar Powered PoE Switch Serial is designed for CCTV surveillance and wireless network. Based on its green energy, it can be charged by the inexhaustible and natural source of energy – solar power. It can conserve green energy economically and power the remote IP cameras and wireless AP, especially used for expansive applications such as dams, forests, deserts, national parks, and highways.

### **Features**

### Built-in MPPT (Maximum Power Point Tracking) Controller

The MPPT (Maximum Power Point Tracker) controller can detect the voltage of the solar panel in real time, track the highest power, and convert the high voltage DC output of the solar panel to the low voltage required for effective charging, so that the system can charge the battery at the maximum power. It is the brain of the photovoltaic system which coordinates with solar panels, batteries and loads in the solar photovoltaic system.

#### Zero-Carbon, Green and Stable Power Supply

During the day, solar energy can power the communication system and charge the battery, and at night, the battery uses the excess electricity generated by solar energy during the day to power the communication system, which builds a zero-carbon, green and stable communication system without any external energy.

### Easy and Intelligent Photovoltaic Power and Battery Status Monitoring

The dashboard in Wi-Tek cloud makes it easy to monitor real-time solar power and battery status, receive battery capacity and charge status alarm, track power generation, power consumption, and battery data.

#### Wi-Tek Cloud Management

The photovoltaic power and battery status and data of WI-PS306GF-UPS-15A V2 can be quick configuration, visual management, and remote access in the Wi-Tek through WI-IOT100, which is easy operation and maintenance.

### Specifications



Specifications			
Products	WI-PS306GF-UPS-15A		
Hardware Version	V2		
Hardware Features			
Interface	1*10/100/1000Mbps PoE++ (Type 4) RJ45 port		
	2*10/100/1000Mbps PoE+ RJ45 ports		
	2*10/100/1000Mbps 24V(passive)/48V(af/at) PoE RJ45 ports		
	1*1000Mbps SFP		
Serial Port	1*RS-485 port		
Power Input Port	6-PIN 5.08mm phoenix connector:		
	2*2-PIN Solar input in parallel (compliant DC input but cannot be connected at the same time with solar		
	input to avoid damage to the device)		
	1*2-PIN Battery charging & discharging		
	Front panel:		
	1*PW, Power indicator		
	1*BIN, Battery charging status indicator		
	1*BOT, Battery discharging status indicator		
LED Indicator	4*Port PoE status indicators		
	1*SFP port indicator		
	Rear panel:		
	1*CPU, System indicator		
	1*VOT, Power output indicator		
	1*BIN, Battery charging status indicator		
	1*BOT, Battery discharging status indicator		
	1*SIN, Power input indicator		
	1*BS, Battery status indicator		
DIP Switch	Front panel:		
	PoE watchdog mode, all PoE ports enable PoE watchdog function, which can detect and reboot the		
	offline compliant PoE powered devices automatically.		
	VLAN mode, all downlink ports are isolated from each other, but can communicate with uplink ports.		
	Extend mode, the data and PoE transmission distance of port 1~5 can be up to 250m.		
	Port 4 and 5 PoE mode, switch 24V passive PoE mode or af/at PoE mode of port 4&5.		
	Rear panel:		
	Switch power on and off.		
	12V/24V lead acid, 11.1V(Working voltage: 9~12.6V)/22.2V(Working voltage: 18~25.2V) lithium,		
	12.8V(Working voltage: 10~14.6V)/25.6V(Working voltage: 20~29.2V) LiFePO4 battery type selection.		
Power Consumption	<5W (Without PoE)		

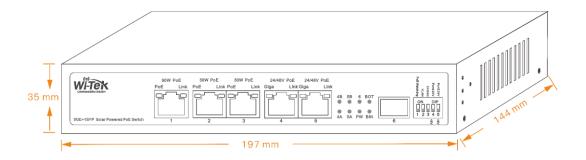
Products	WI-PS306GF-UPS-15A	
Hardware Version	V2	
Hardware Features		
Dimensions(W*D*H)	197*144*35mm	
Weight	0.83kg	
Package Dimensions	270*220*67mm	
Package Weight	1.08kg	
Installation	Desktop/Wall mounted	
Fan Quantity	Fan-less	
Material	Metal shell	
Color	Black	
PoE		
PoE Port	Port 1–5	
	Port 1: IEEE 802.3bt (Type 4)	
PoE Standard	Port 2-3: IEEE 802.3af/at	
	Port 4-5: IEEE 802.3af/at or 24V passive PoE	
	Port 1: 1/2/4/5 (+), 3/6/7/8 (-)	
PoE Pin Assignment	Port 2–3: 1/2(+), 3/6(–)	
	Port 4-5: 1/2(+), 3/6(-) @IEEE 802.3af/at PoE or 4/5(+), 7/8(-) @24V passive PoE	
PoE Port Power	90W max for port 1, 30W max for port 2-3, 30W max@ IEEE 802.3af/at or 24W max @24V passive PoE	
I OL I OIL FUWEI	for port 4–5	
PoE Power Budget	120W max for whole switch PoE power budget	
Switch Property		
Standards and Protocols	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt	
Forwarding Mode	Store and forward	
MAC Address Table	2k	
Switching Capacity	12Gbps	
Packet Forwarding Rate	8.94Mpps	
Packet Buffer Memory	2.4Mb	
Jumbo Frame	10240Bytes	
Reliability		
ESD Protection	6kV	
Surge Immunity	6kV	
Operating Environment	-20°C to 65°C, 10%~90% (non-condensation)	
Storage Environment	-40°C to 70°C, 5%~90% (non-condensation)	
Other Features		
Cloud Management	The photovoltaic power, battery status and data of WI-PS306GF-UPS-15A V2 can be quick configuration,	
Sidua Management	visual management, and remote access in the Wi-Tek cloud through WI-IOT100(Solar mode of serial port).	

<sup>\*</sup> The solar input cannot supply power to the switch independently without the battery connect.

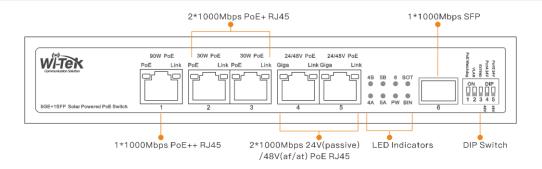
# **Appearances and Dimensions**

#### WI-PS306GF-UPS-15A

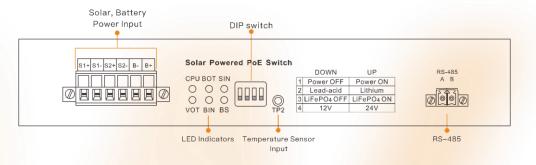
#### Dimensions



#### Front Panel



#### Rear Panel



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

The solar input cannot supply power to the switch independently without the battery connect.

# **Package Content**

Welcome to order our products. After purchasing, you will receive:

Item	Quantity
Switch	1 pcs
Mounting Accessories (L-shape bracket, Screw, Screwdriver, Mat)	1 pcs
Quick Installation Guide	1 pcs



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Technical Support

Cloud Management

Company Website

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