Solar Powered PoE Switch

WI–PS306GF–UPS V3

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

Multiple Backup Power Supply

Support access of solar power, DC, and battery at the same time, when there is no solar energy at night, the DC can still supply power, when the DC is also powered off, the backup power in the battery is finally used to ensure the maximum possible uninterrupted power supply.

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.

Built–in PWM Solar Controller

The PWM solar 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.

Specifications

Products	WI–PS306GF–UPS
Hardware Version	V3
Hardware Features	
Interface	1*10/100/1000Mbps PoE++ (Type 3) RJ45 port 2*10/100/1000Mbps PoE+ RJ45 ports 2*10/100/1000Mbps 24V(passive)/48V(af/at) PoE RJ45 ports 1*1000Mbps SFP
Power Input Port	6–PIN 5.08mm phoenix connector 1*Solar input, 1*DC input 1*Battery charging & discharging
LED Indicator	Front panel: 1*PW, Power indicator 1*BIN, Battery charging status indicator 1*BOT, Battery discharging status 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, Solar power input indicator 1*VIN, DC input 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, 12.6V/25.2V lithium and 14.8V/29.6V Lithium iron phosphate battery type selection.
Power Consumption	<5W (Without PoE)

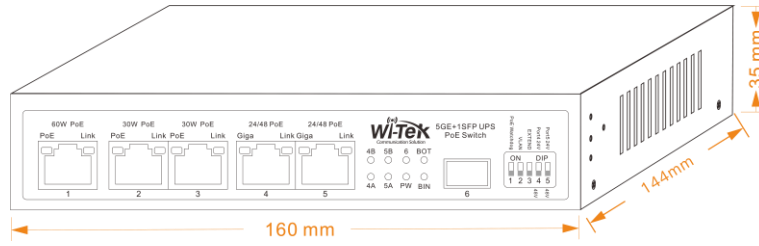| Products	WI–PS306GF–UPS
Hardware Version	V3
Hardware Features	
Dimensions(W*D*H)	160*144*35mm
Weight	0.74kg
Package Dimensions	270*220*67mm
Package Weight	1.56kg
Installation	Desktop/Wall mounted
Fan Quantity	Fan–less
Material	Metal shell
Color	Black
PoE	
PoE Port	Port 1–5
PoE Standard	Port 1: IEEE 802.3bt (Type 3) Port 2–3: IEEE 802.3af/at Port 4–5: IEEE 802.3af/at or 24V passive PoE
PoE Pin Assignment	Port 1: 1/2/4/5 (+), 3/6/7/8 (–) 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	60W max for port 1, 30W max for port 2–3, 30W max@ IEEE 802.3af/at or 24W max @24V passive PoE for port 4–5
PoE Power Budget	65W 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)

Products	WI–PS306GF–UPS					
Hardware Version	V3					
Solar Controller						
Battery Type	Lead acid		Lithium		Lithium iron phosphate	
	12V	24V	12.6V	25.2V	14.8V	29.6V
Battery Capacity	<50Ah					
Charging Mode	PWM					
Consumable Supplement	Support					
Consumable Detection Voltage	<12.6V	<24.8V	<12.2V	<24.4V	<14.2V	<28.8V
Max. Charging Voltage	14.7V	29.6V	12.6V	25.2V	14.8V	29.6V
Rated Charging Current	5A max.					
Float Voltage	13.7V	27.4V	–			
Float Current	50mA–1000mA		–			
Float Time	3hours		–			
Discharge Cut–off Voltage	10.1V	20.2V	9V	18V	10.2V	20.4V
Rated Discharging Current	6.5A	3.6A	8.5A	4A	6.5A	4A
Power input						
Photovoltaic Input	<200W	<400W	<200W	<400W	<200W	<400W
Photovoltaic Open Circuit Voltage	<32V	<45V	<32V	<45V	<32V	<45V
DC Input	15~26V DC@12V battery, 240W input max. 30~36V DC@24V battery, 240W input max.					
Protection						
Protection	Over current protection, Short–circuit protection, Reverse connection protection, PoE over load protection, Over charging protection, Over discharging protection, Delay start, Switch over temperature protection, Battery over temperature protection (with temperature sensor)					

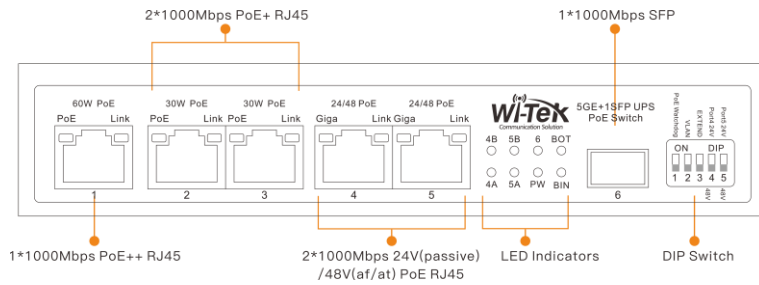* The solar input cannot supply power to the switch independently without the battery connect.
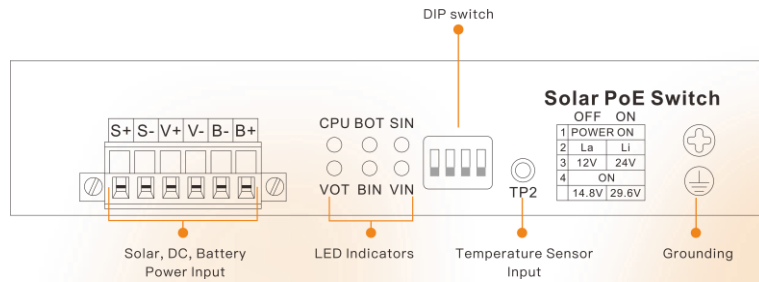
Appearances and Dimensions

WI–PS306GF–UPS V3

Dimensions

Front Panel

2*1000Mbps PoE+ RJ45

1*1000Mbps SFP

1*1000Mbps PoE++ RJ45

2*1000Mbps 24V(passive) /48V(af/at) PoE RJ45

LED Indicators

DIP Switch

Rear Panel

DIP switch

S+ S- V+ V- B- B+

CPU BOT SIN

VOT BIN VIN

TP2

Solar PoE Switch

	OFF	ON
1	POWER ON	
2	La	Li
3	12V	24V
4	ON	
	14.8V	29.6V

Solar, DC, Battery Power Input

LED Indicators

Temperature Sensor Input

Grounding

* 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
24V@5A Power Adapter (Except Australia)	1 pcs
Power Cable (Except Australia)	1 pcs
Mounting Accessories (L-shape bracket, Screw, Screwdriver, Mat)	1 pcs
Quick Installation Guide	1 pcs

CE FC RoHS UK CA

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