

POE-SW804G-SOLAR

4 Ports MPPT Solar PoE Switch for Security Cameras and IoT Devices



Outstanding Features

- **Solar PoE Switch:** Industrial PoE Switch with built-in MPPT solar charge controller, working directly with PV solar panels (Max. 300W) and batteries to supply non-stop PoE power for security cameras, Wireless bridges, LED lights, etc.
- **99% Efficient MPPT Technology:** MPPT (Maximum Power Point Tracker) charging technology with up to 99% tracking efficiency and 98% peak PV conversion efficiency. It is much better than traditional PWM controllers, especially in cloudy days.
- **Smart Battery Management:** Local battery status LED indicator and remotely battery management, compatible with battery types (Lead Acid, Gel, AGM, Lithium, LiFePO4 Lithium, etc.). Automatically detects 12V or 24V DC system voltages (for Non-Lithium battery types). 10A output current.
- **5-Port Full Gigabit PoE Switch:** Provide 4 IEEE802.3af/at 30W PoE ports and 1 Gigabit uplink; All ports 10/100/1000Mbps self-adaptive full duplex; Total PoE budget is 120W@24V or 60W@12V.
- **Remote Monitoring via RS485:** Supports RS485 ModBus for remote monitor and control, enabling you to monitor the status of your solar panels/solar trailers/solar powered cameras on the go. It can be managed in Linovision RemoteMonit Cloud Platform (bundle with IOT-C101 Gateway).
- **Easy Cabling:** Easy and secure cabling, MC4 for PV panels, XT60 for battery, and round 2pin for load devices.
- **High Security:** 4-Stage Safely Charging & well designed protections, including over charging, over discharging, PV short circuit, PV current is too high, load failure, battery reverse polarity, etc. It also comes with 20A Fuse protection on the battery terminal.
- **Industrial Design:** IP40 Metal shell & fanless design. Support DIN-rail installation. Wide working temperature - 40°F to +131°F (-40°C to 55°C), 6KV Surge Protection.

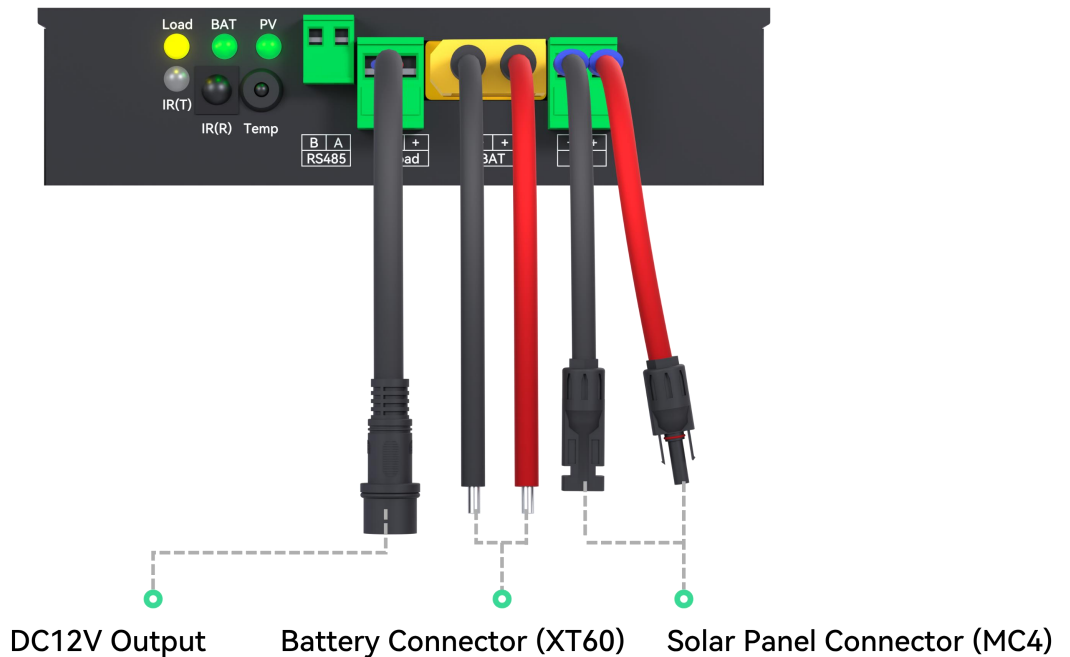
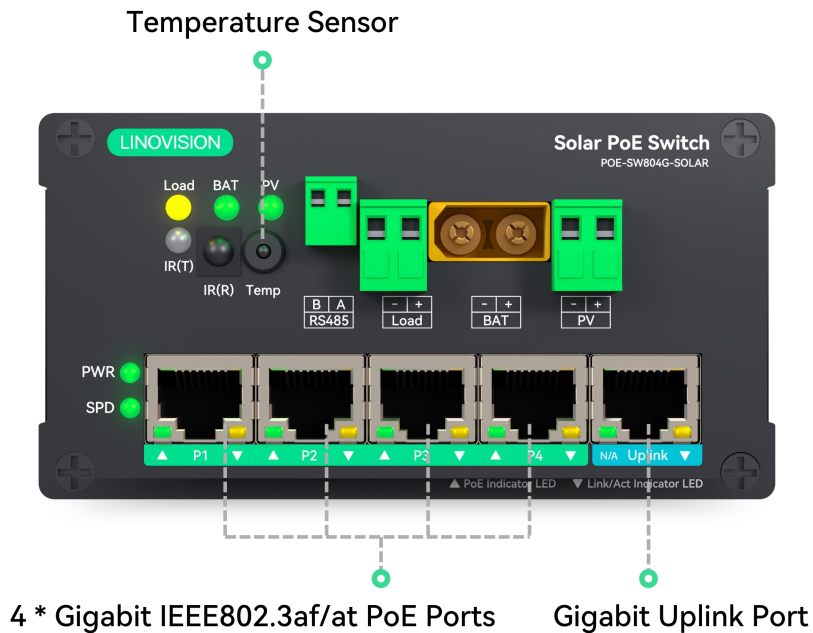
Specification

Mechanical	
Enclosure Material	Aluminium
Weight	535 g (1.18 lb)
Dimension (W × D × H)	105 × 105 × 55 mm (4.13 × 4.13 × 2.16 in)
Storage Temperature	-40°C to +85°C (-40°F to 185°F)
Operating Temperature	-40°C to +55°C (-40°F to 131°F)
Relative Humidity	5% to 95% non-condensing
Interface	
Network	4 x 10/100/1000 Mbps RJ45 PoE Ports 1 x 10/100/1000 Mbps RJ45 Uplink Port
Serial Communication	1 x 9600bps RS485
Battery	1 x Male XT60 Connector
Load	1 x Male M12 2 Pin Waterproof Connector
PV Panel	1 x Female MC4 Connector to PV+ 1 x Male MC4 Connector to PV-
Ethernet	
MAC Address Table	8K
Packet buffer	1Mbits
Packet Length	10Kbytes
Switching Capacity	10Gbps
PoE Standard	IEEE 802.3 af/at
PoE Mode	Mode B
PoE Budget	60W (12V System Voltage) 120W (24V System Voltage)
Solar	
Charging Mode	Max Power Point Tracking
Battery Type	Lead Acid, Gel, AGM, Lithium, LiFePO4 Lithium, etc (Default set to 4s LiFePO4 Lithium, Voltage 11.2V ~ 14.4V)
MAX PV Panel Output Power	170W(12V System Voltage) 340W(24V System Voltage)

**Disclaimer: Technical specifications may subject to change without prior notice*

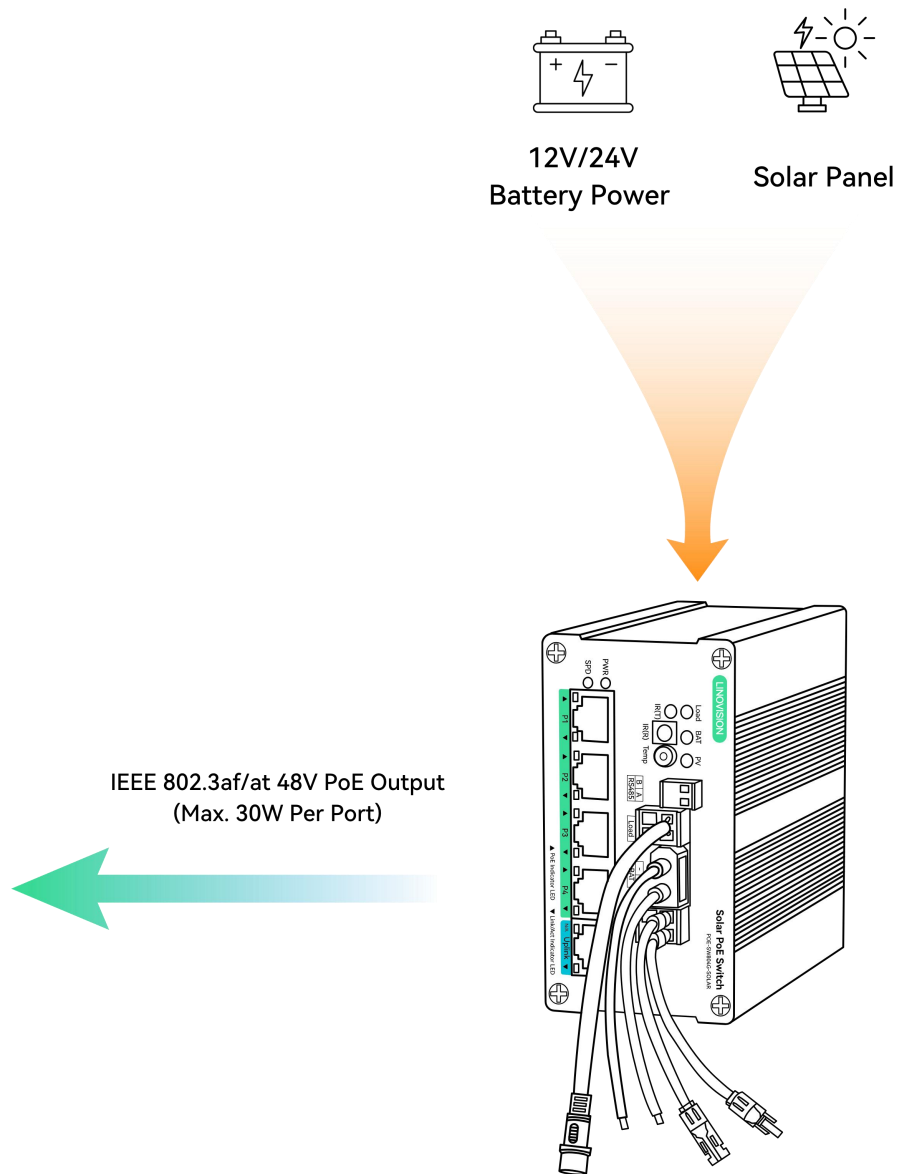
MAX PV Panel Open Circuit Voltage	30V (12V System Voltage) 60V (24V System Voltage)
MAX Charging Current	10A
Discharge Mode	Manually, Day/Night Auto Switch, Schedule
Output Voltage	Battery Voltage
Max Output Current	5A
Typical Efficiency	>98%
Self Consumption	<1.2W

Front View



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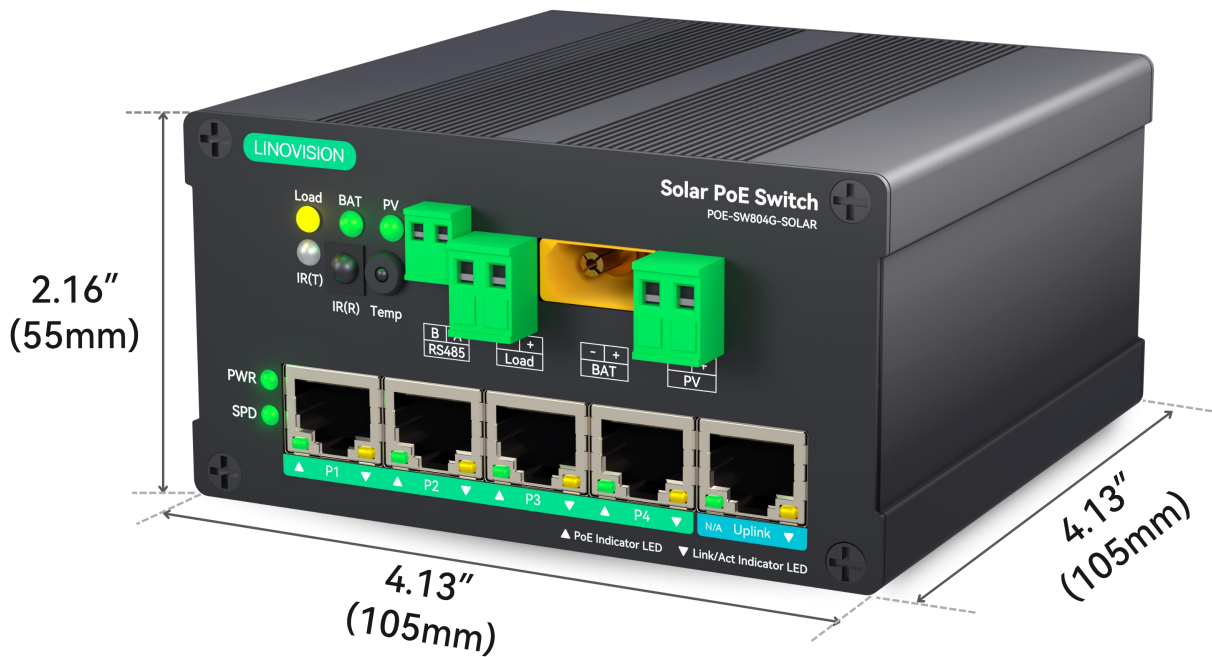
Connection Diagram



System Voltage Rate	Total PoE Power(Max)
12V	60W
24V	120W

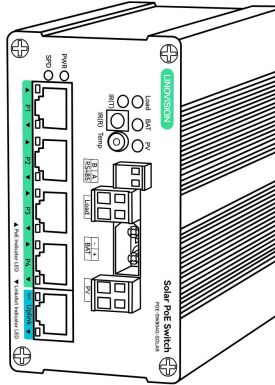
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Dimension

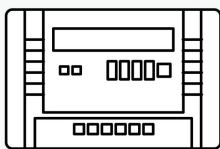


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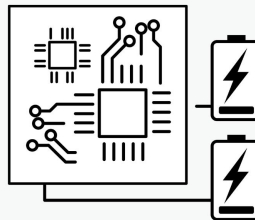
Built-in MPPT Solar Charge Controller



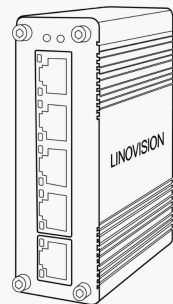
Solar PoE Switch



MPPT Solar Charge
Controller



Battery Controller



Industrial PoE Switch

Compatible Battery Type: Lead Acid, Gel, AGM, Lithium, LiFePO4
Lithium, etc. (Default set to 4S LiFePO4 Lithium)

Package



POE-SW804G-Solar



DC Extension Cable



Battery Connection
(XT60) Cable



Solar Panel Connection
(MC4) Cable



User Manual