

SOLAR-S1240P100POE

5-in-1 Smart Solar Power System for Security Cameras and IoT Device



Outstanding Features

- Fully integrated 5-in-1 design (solar panel, battery, charge controller, poe switch and bracket).
- 100W monocrystalline solar panel with foldable pole mount bracket.
- 1x IEEE802.3af/at PoE, 1x 45W High PoE+ and 1x Passive 24V PoE output.
- Built-in 512WH LiFePO4 battery capacity, about 80 hours battery retention with 1 camera and 1 4G router connected.
- LiFePO4 batteries offer enhanced safety, with strong high-temperature resistance and a stable material structure.
- Anti-corrosion design with Galvanization steel material.
- Work in cold regions, automatic heating below 0°C or 32°F, IP66 waterproof for outdoor applications.

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

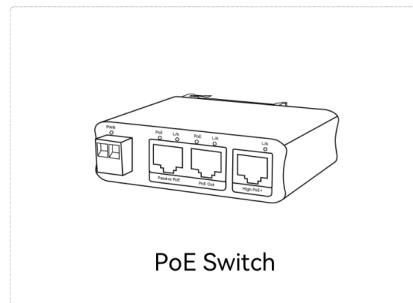
5-in-1 Design



+



+



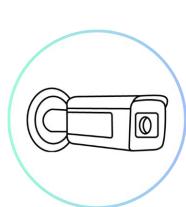
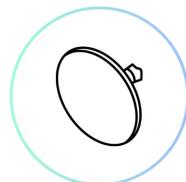
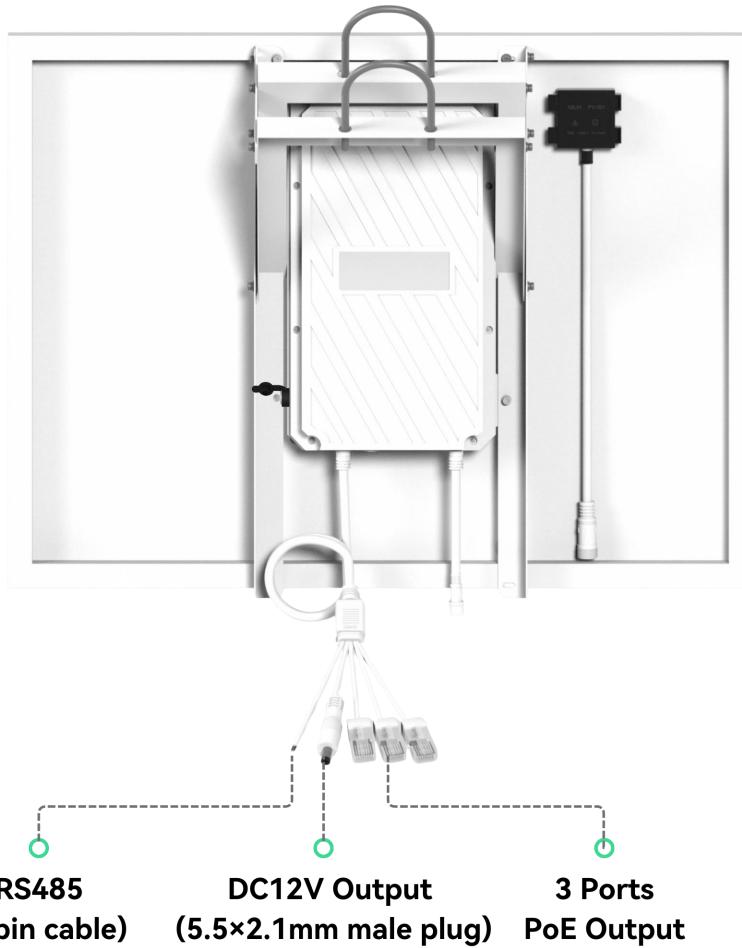
+



Solar-S1240P100POE

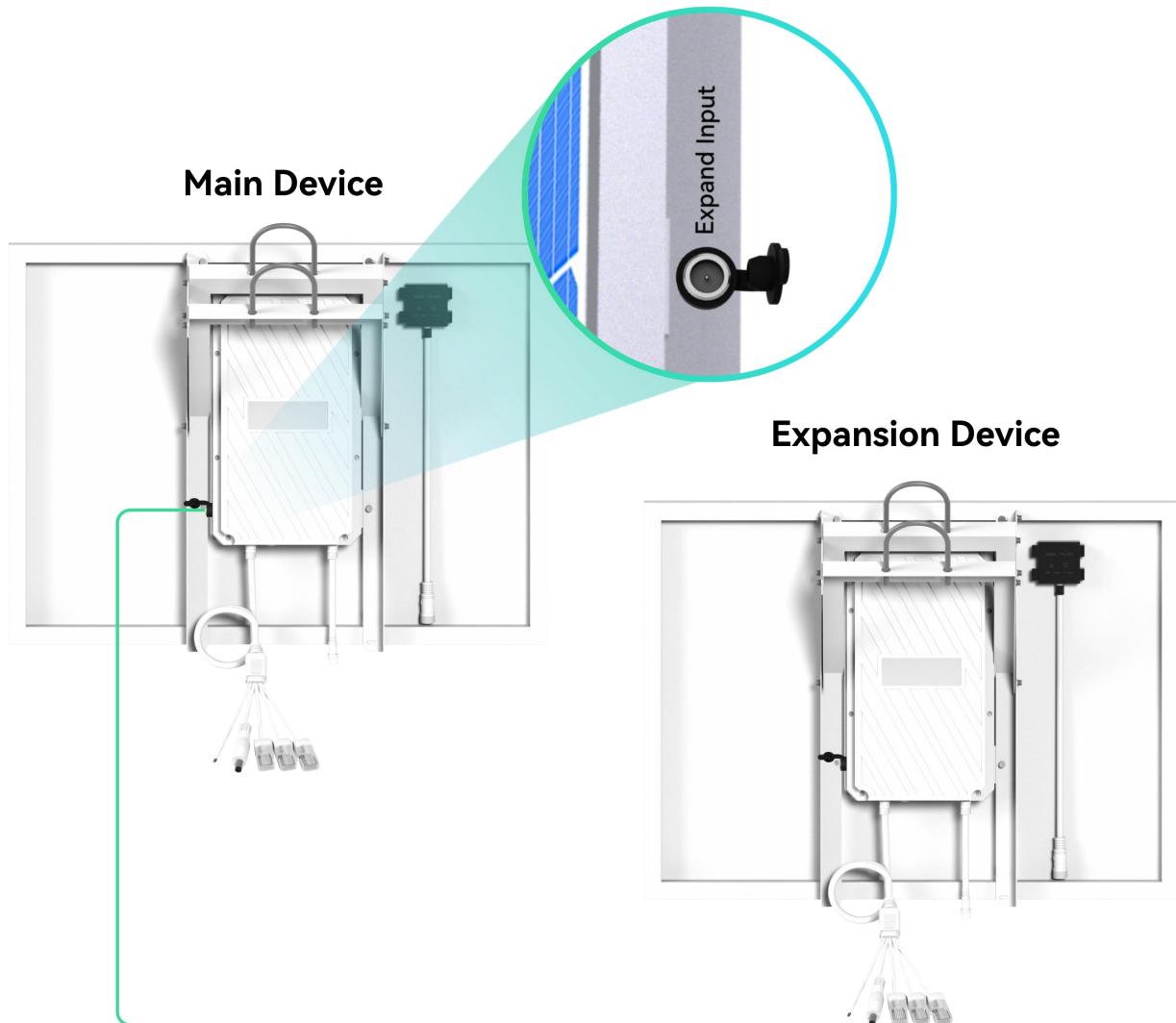
**Disclaimer: Technical specifications may subject to change without prior notice*

Interface



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

Expand Input



- Expand Input port can be used to connect another SOLAR-S1240P100POE in parallel to extend the system's overall runtime.
- Note: When using the expansion function, please ensure that the expansion device is first connected to the main unit via the "Expand Input" interface, and only then connect the photovoltaic panels and battery interfaces of the expansion device.

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

Specification

System	
Output Voltage	12.8V DC (11.2V–14.6V)
Output Current	10A
Power Consumption In Idle	<50 uA
Solar Panel	
Type	Monocrystalline silicon
Max. Power	100Wp
Efficiency	≥19%
Battery	
Type	Lithium iron phosphate
Nominal Capacity (20°C/68°F, 5 h)	42Ah
Low Temperature Discharge Performance	≥70% nominal capacity (-20 °C [-4 °F], 5 hr)
Normal Temperature Discharge Performance	≥99% nominal capacity (25 °C [77 °F], 5hr)
High Temperature Discharge Performance	≥90% nominal capacity (55°C [131 °F], 5hr)
Upper Limit of Charging Voltage	14.6V
Max. Charging Current	10A
Charge and Discharge Cycle Times	>500 times
Protection	
Over Discharge Protection Voltage	11.2V
Low Temperature Charging Inhibition	0°C(32 °F)
Low Temperature Discharging Inhibition	-20°C(-4 °F)
Protection	IP66
Others	Protection against overheating overcharging, overloading and short circuits.
Port	
Power Output Port	DC 12V (5.5/2.1mm interface)
RS-485	1
Network	2 * 10/100 Mbps RJ45 PoE Ports 1 * 10/100/1000 Mbps RJ45 PoE Ports
Ethernet	
PoE Output Ports	Port 1: PoE+, IEEE 802.3af/at, Mode A (Pins 1/2 [+], 3/6 [-]), Max 30W Port 2: Passive PoE, 24 V, (Pins 4/5 [+], 7/8 [-]) Port 3: High PoE+, IEEE 802.3af/at, Mode A (Pins 1/2 [+], 3/6 [-]), Max 45W
Power Consumption	Idle: < 1.5W
MAC Address Table	2K
Packet Length	16 KB
Switching Capacity	2.4 Gbps

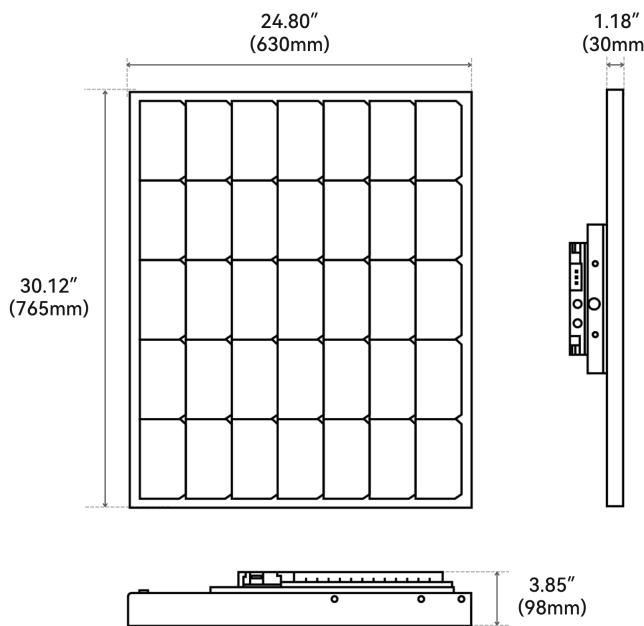
**Disclaimer: Technical specifications may subject to change without prior notice*

Specification

Environment	
Operating Altitude	≤3,000 m (9,842.52 ft)
Applicable Area	The device needs to be exposed to direct sunlight for at least 3.5 hours under standard lighting intensity to ensure it operates normally.
Operating Temperature	Charging: 0 °C to + 55 °C (32 °F to +131 °F); the device self-heats when the battery reaches 0 °C Discharging: -20 °C to + 65 °C (-4 °F to 149 °F)
Operating Humidity	10%–90% (RH)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F); the storage time is less than 2 months. -10 °C to +25 °C (+14 °F to +77 °F); the storage time is less than 12 months.
Storage Humidity	65 ± 20% (RH)
Anti-corrosion Level	Basic Protection
Structure	
Main Body Material	Photovoltaic panel frame: aluminum alloy Battery compartment: PC and ASA Bracket: Q235
Installation	Column-shaped vertical pole (Φ80 mm–114 mm)
Product Dimensions	765 mm * 630 mm * 98 mm (30.12" * 24.80" * 3.85")
Packaging Dimensions	830 mm * 700 mm * 120 mm (32.68" * 27.56" * 4.72")
Net Weight	12.7kg(28lb)
Gross Weight	14.3kg(31.53lb)

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

Dimension



Weight: 12.7 kg (28 lb)

Package Contents



Fully Integrated Solar Panel



Pole Mount Bracket



Bracket Adjuster



Mounting Screws



User Manual

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