

LINOVISION

5-in-1 Smart Solar Power System

SOLAR-S1240P100POE

Quick Guide (V1.0/2025-12-16)



Quick Guide

Package Contents



Fully Integrated Solar Panel



Pole Mount Bracket



Bracket Adjuster

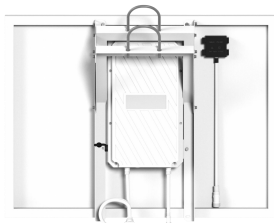


Mounting Screws



User Manual

Interface



RS485
(2-pin cable)

DC12V Output
(5.5x2.1mm male plug)

3 Ports
PoE Output



45W High PoE+



Passive 24V PoE



IEEE802.3af/at PoE



DC12V



DC12V

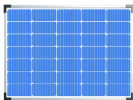
5-in-1 Design



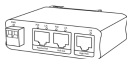
Built-in 512Wh LiFePO4 Battery



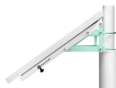
Solar Charge Controller with
Cloud Monitoring



100W Solar Panel



PoE Switch

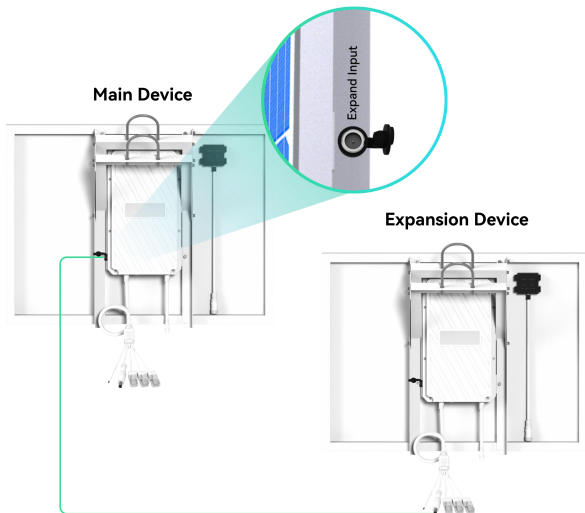


Integrated Foldable Bracket



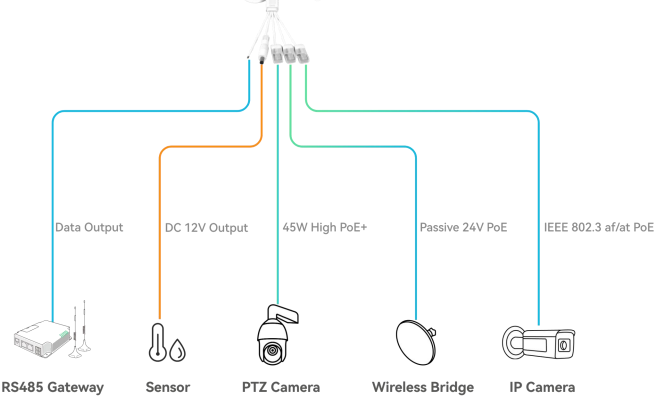
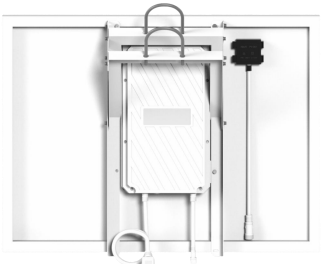
Solar-S1240P100POE

Expand Input

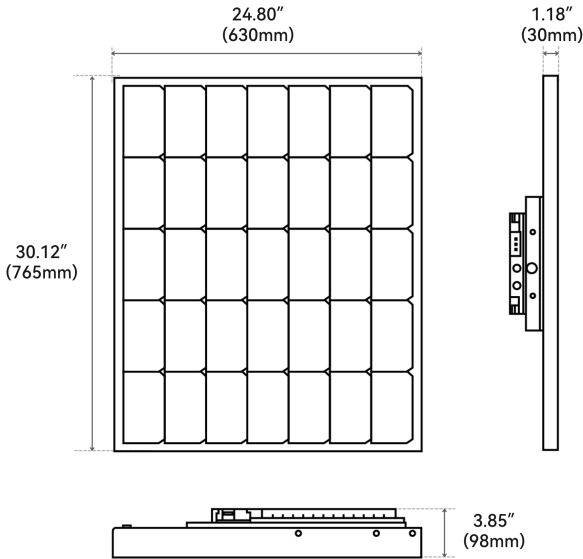


- Expand Input port can be used to connect another SOLAR-S1240P100POE in parallel to extend the system's overall runtime.
- Note: When using the expansion function, please ensure that the expansion device is first connected to the main unit via the "Expand Input" interface, and only then connect the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

Connection Diagram



Dimension



Weight:12.7 kg (28 lb)

LED Indicator

Indicator	Colour	Status
PV	Green	Solid On: Charging in progress Off: Not charging Slow Flashing: Battery fully charged
Battery	Green / Yellow / Red	Green (Solid): Battery capacity > 40% Yellow (Solid): Battery capacity 10%–40% Red (Solid): Battery capacity 1%–10% Red (Flashing): Battery capacity 0% Off: No battery output
Load	Red	Solid On: Load output enabled Off: Load output disabled

Specifications

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

Specifications

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