

LINOVISION

5-in-1 Smart Solar Power System

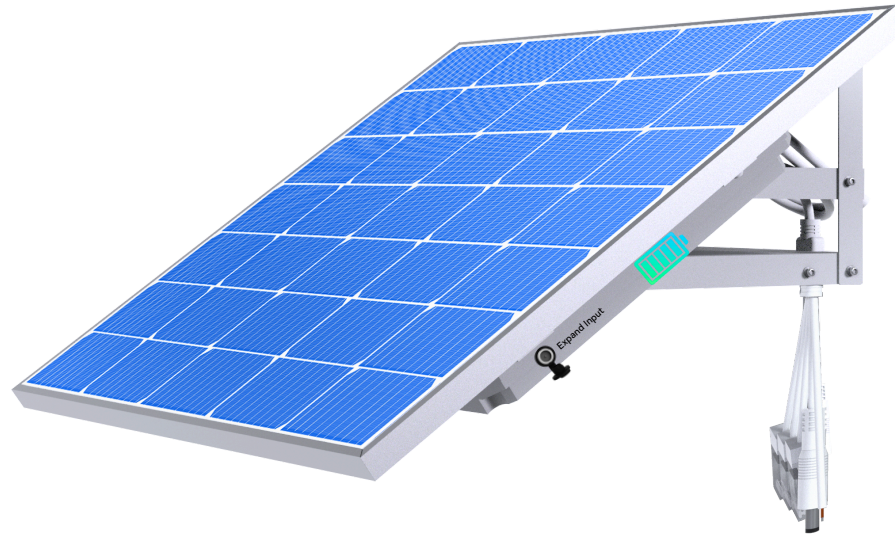
SOLAR-S1240P100POE

Quick Guide (V2.1/2026-3-13)

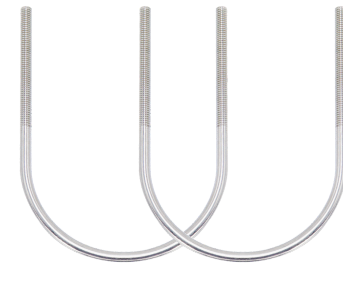


Quick Guide

Package Contents



Fully Integrated Solar Panel



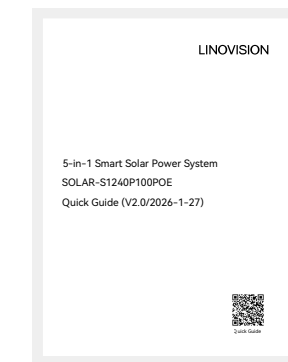
Pole Mount Bracket



Bracket Adjuster

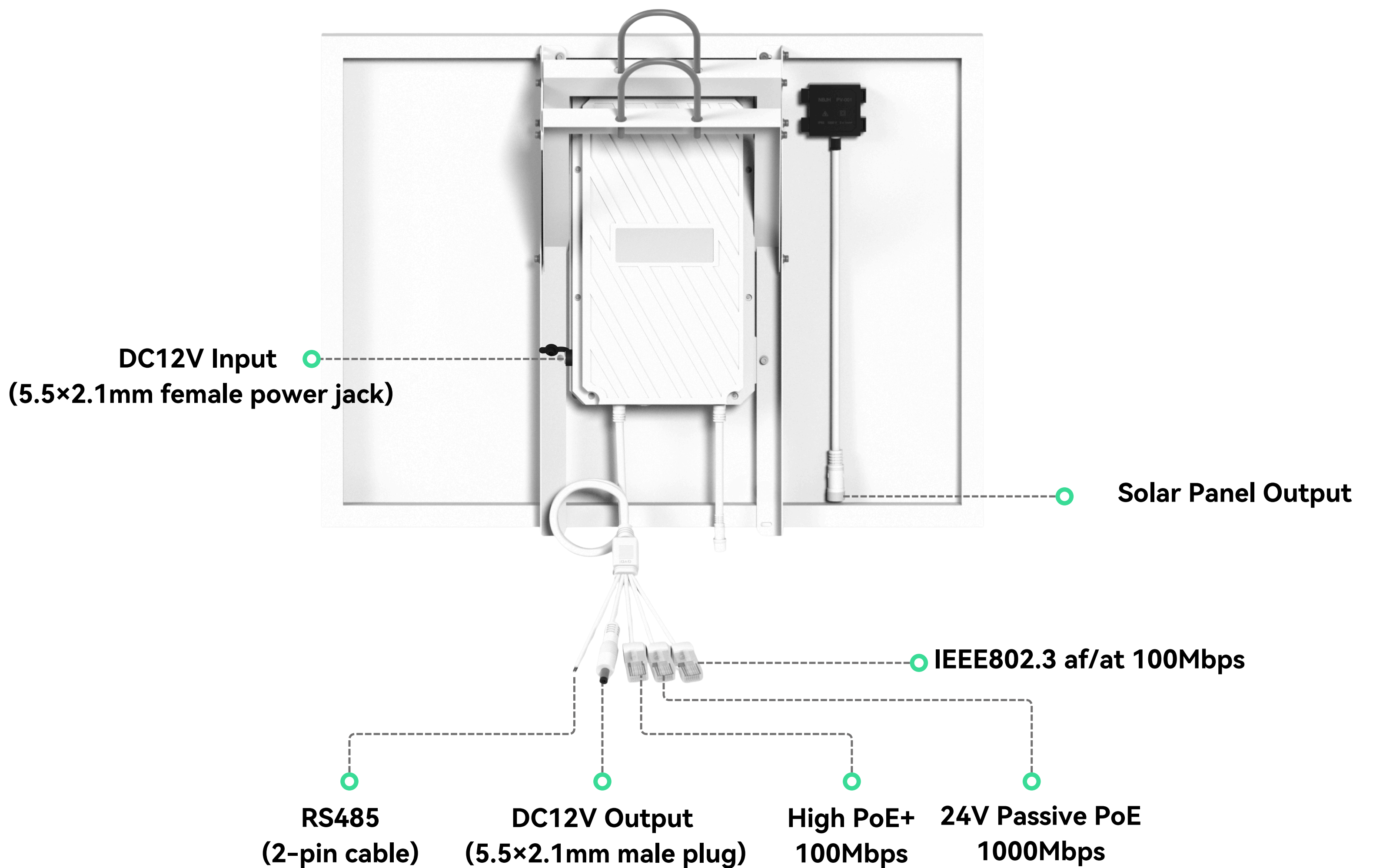


Mounting Screws



Quick Guide

Interface



DC12V Input
(5.5×2.1mm female power jack)

Solar Panel Output

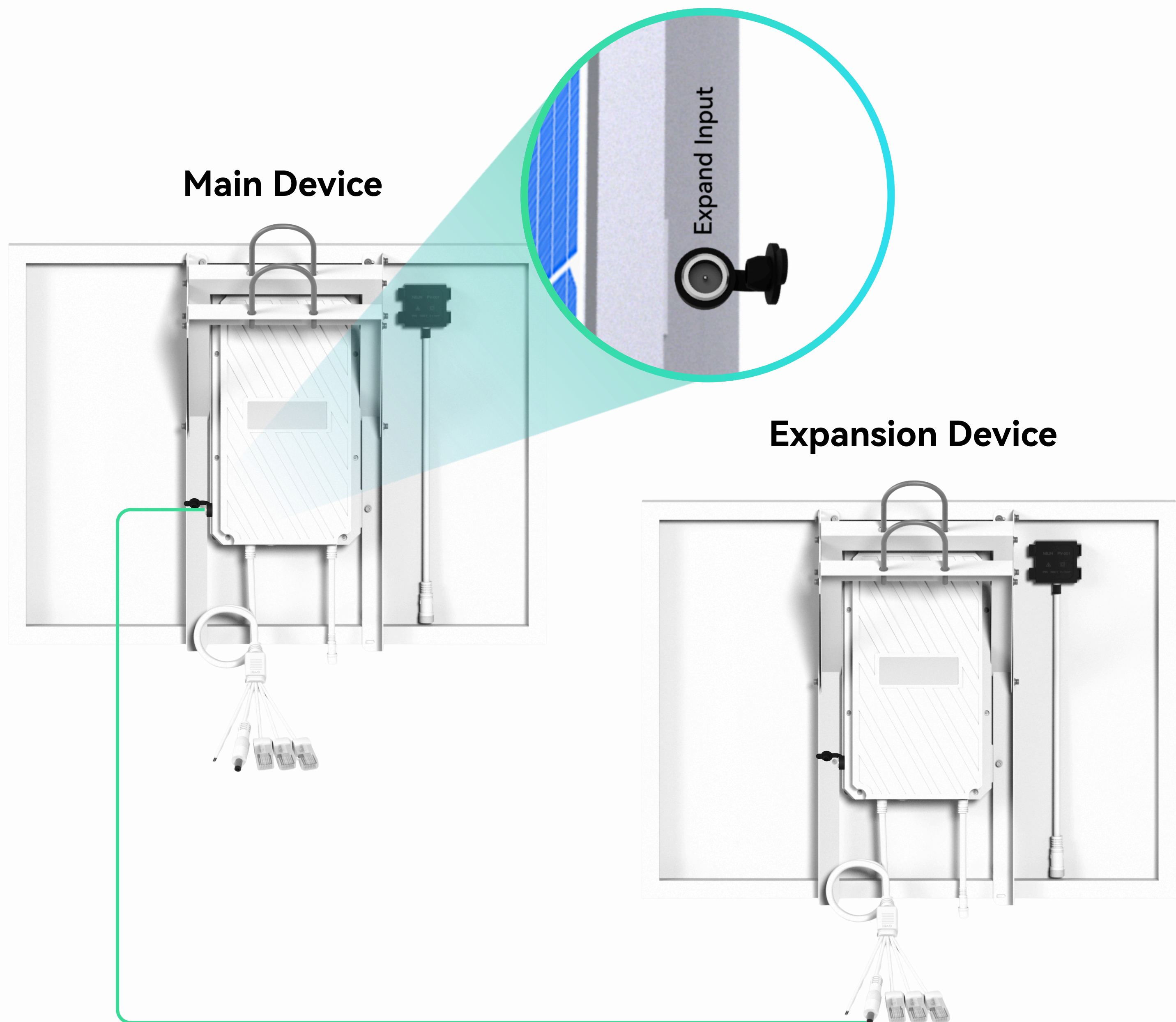
RS485
(2-pin cable)

DC12V Output
(5.5×2.1mm male plug)

High PoE+
100Mbps

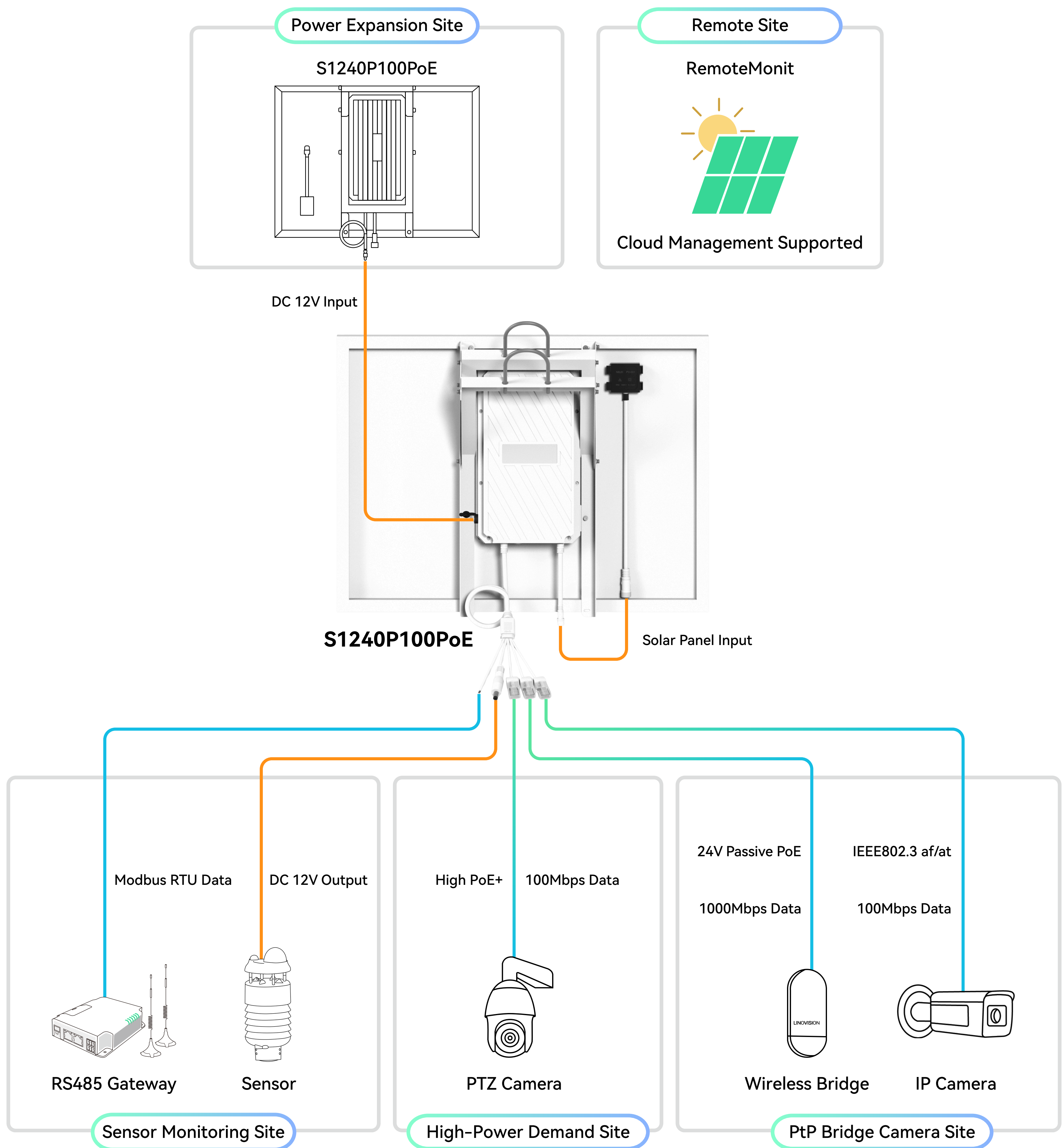
IEEE802.3 af/at 100Mbps
24V Passive PoE
1000Mbps

Expand Input

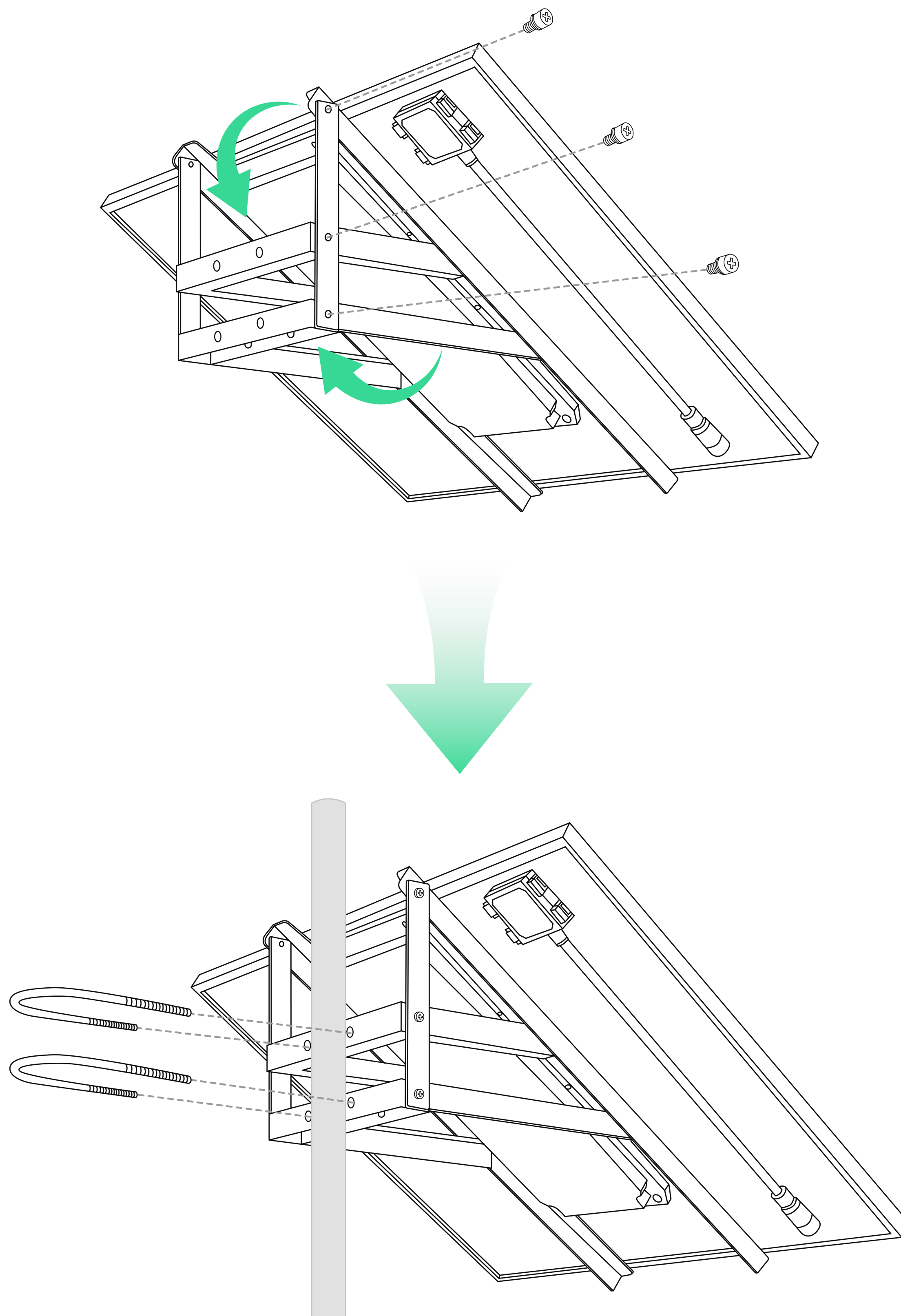


- Expand Input port can be used to connect another SOLAR-S1240P100POE in parallel to extend the system's overall runtime.
- Note: When using the expansion function, please ensure that the expansion device is first connected to the main unit via the "Expand Input" interface, and only then connect the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

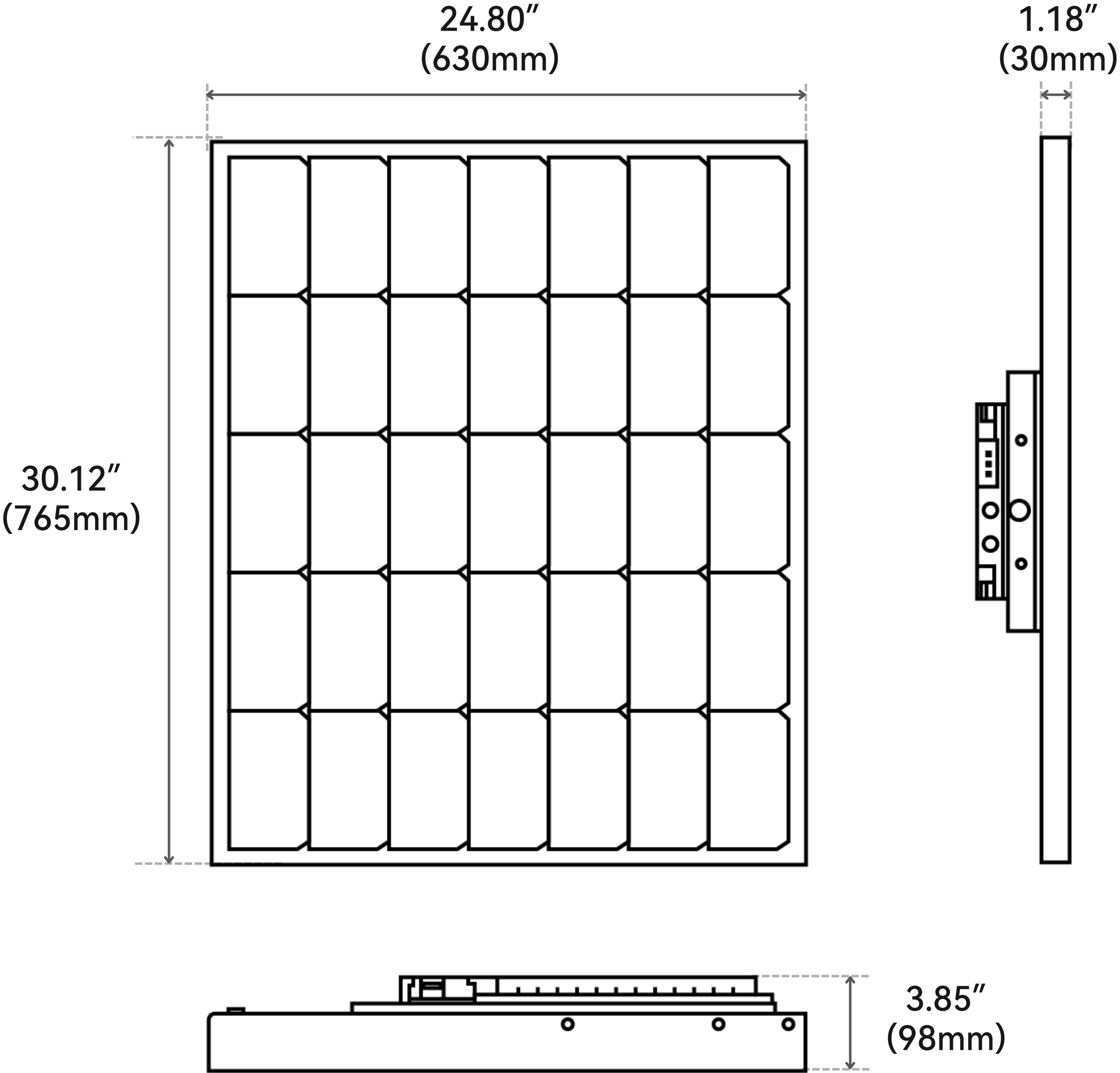
Connection Diagram



Installation



Dimension



Weight: 13.25 kg (29.21 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 On: Battery capacity > 40% Yellow Solid On: Battery capacity 10%–40% Red Solid On: Battery capacity 1%–10% Red Slow Flashing: Battery capacity 0% Off: No battery output
Load	Red	Solid On: Charging in progress Off: Not charging

Data Sheet

System	
Output Voltage	12.8V DC (11.2V–14.6V)
Output Current	10A
Solar Panel	
Type	Monocrystalline silicon
Max. Power	100Wp
Efficiency	≥19%
Battery	
Type	Lithium iron phosphate
Nominal Capacity (25°C/77°F, 5 hr)	42Ah
Low Temperature Discharge Performance	≥50% nominal capacity (-20 °C [-4 °F], 5 hr)
Normal Temperature Discharge Performance	≥99% nominal capacity (25 °C [77 °F], 5 hr)
High Temperature Discharge Performance	≥90% nominal capacity (55°C [131 °F], 5 hr)
Upper Limit of Charging Voltage	14.6V
Max. Charging Current	10A
Charge and Discharge Cycle Times	>2000 times

Protection	
Over Discharge Protection Voltage	11.2V
Low Temperature Charging Inhibition	0°C (32 °F)
Low Temperature Discharging Inhibition	-20°C (-4 °F)
High Temperature Charging Inhibition	55 °C (131 °F)
High Temperature Discharging Inhibition	65 °C (149 °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 Port
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
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 and stops heating when the battery exceeds 5 °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 (Φ90 mm-114 mm)
Product Dimensions	765 mm * 630 mm * 98 mm (30.12" * 24.80" * 3.85")
Packaging Dimensions	860 mm * 750 mm * 140 mm (33.86" * 29.53" * 5.51")
Net Weight	13.25 kg (29.21 lb)
Gross Weight	14.8 kg (32.63 lb)