

## SOLAR-S1240P100POE

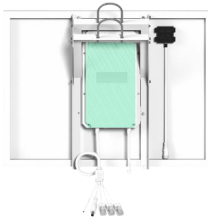
5-in-1 Smart Solar Power System for Security Cameras and IoT Device



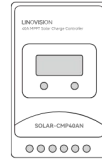
### Outstanding Features

- 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.

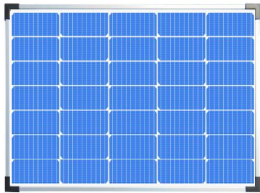
## 5-in-1 Design



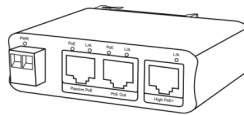
Built-in 512Wh LiFePO4 Battery



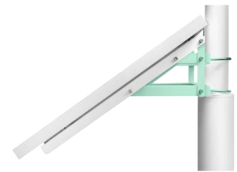
Solar Charge Controller with  
Cloud Monitoring



100W Solar Panel



PoE Switch



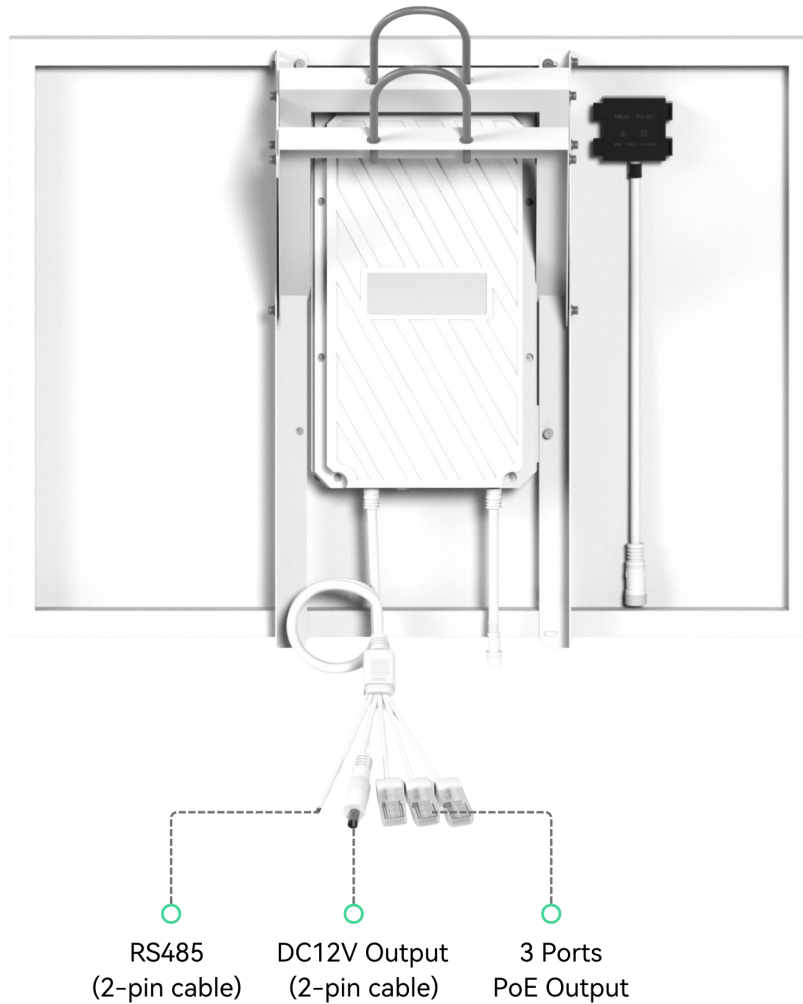
Integrated Foldable Bracket



Solar-S1240P100POE

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

## Interface



- 3 Ports PoE Output - 1x IEEE802.3af/at PoE, 1x 45W High PoE+ and 1x Passive 24V PoE output (Any PoE port can be used as an Uplink Port)
- DC12V Output (2-pin cable)
- RS485 (2-pin cable) for remote charge status monitoring

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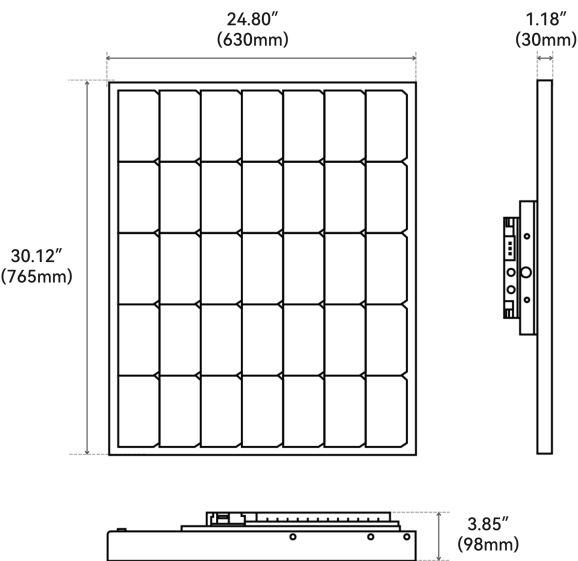
## Specification

|                                          |                                                                                                                                                                                                             |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                            |                                                                                                                                                                                                             |
| Output Voltage                           | 12.8V DC (11.2V~14.6V)                                                                                                                                                                                      |
| Output Current                           | 10A                                                                                                                                                                                                         |
| Power Consumption In Idle                | <50 uA                                                                                                                                                                                                      |
| <b>Solar Panel</b>                       |                                                                                                                                                                                                             |
| Type                                     | Monocrystalline silicon                                                                                                                                                                                     |
| Max. Power                               | 100Wp                                                                                                                                                                                                       |
| Efficiency                               | ≥19%                                                                                                                                                                                                        |
| <b>Battery</b>                           |                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                  |
| <b>Protection</b>                        |                                                                                                                                                                                                             |
| 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.                                                                                                                                |
| <b>Port</b>                              |                                                                                                                                                                                                             |
| Power Output Port                        | DC 12V (5.5/2.1mm interface)                                                                                                                                                                                |
| RS-485                                   | 1                                                                                                                                                                                                           |
| Network                                  | 2 * 10/100 Mbps RJ45 PoE Ports<br>1 * 10/100/1000 Mbps RJ45 PoE Ports                                                                                                                                       |
| <b>Ethernet</b>                          |                                                                                                                                                                                                             |
| PoE Output Ports                         | Port 1: PoE+, IEEE 802.3af/at, Mode A (Pins 1/2 [+], 3/6 [–]), Max 30W<br>Port 2: Passive PoE, 24 V, (Pins 4/5 [+], 7/8 [–])<br>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                       | 6 Gbps                                                                                                                                                                                                      |

## Specification

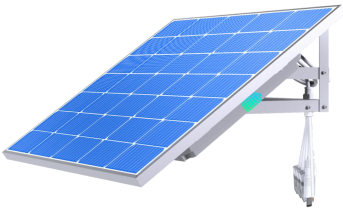
| Environment           |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>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.<br>-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<br>Battery compartment: PC and ASA<br>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  | 840 mm * 700 mm * 150 mm (33.07" * 27.56" * 5.91")                                                                                                            |
| Net Weight            | 13.3kg(29.32lb)                                                                                                                                               |
| Gross Weight          | 14.9kg(32.85lb)                                                                                                                                               |

Dimension



Weight:14.9 kg (32.84 lb)

Package Contents



Fully Integrated Solar Panel



Pole Mount Bracket



Bracket Adjuster



Mounting Screws



User Manual

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