Solar Power System

200 Wp solar panel + mounting bracket + MPPT charge controller + 12.8 V 100 Ah battery + mounting accessories + enclosure made of stainless steel 304 + PoE injector

Features

- Complete Remote Power Solution for Off-Grid operation
- Weatherproof, UV resistant, outdoor enclosures
- Enclosures can be Wall or Pole Mounted
- High Performance LiFePO4 Batteries
- Advanced battery charge controller protects against overcharge and over discharge
- The battery installed behind the solar panel, the temperature inside the enclosures would not be too high in summer.

Parameter	Description
Solar Panel	100W 18V *2, Total:200W 18V
Battery Capacity (Amp Hrs)	100Ah Customized
Battery Voltage (DC)	12.8V
Output Voltage1 (DC)	12.8V
Output Voltage2 (DC)	37V-57V POE Injector
Battery Type	LiFePO4 330*172*220mm
Bracket	Anodized Aluminum
The bracket is adjustable and flexible, Thickness: 4mm	

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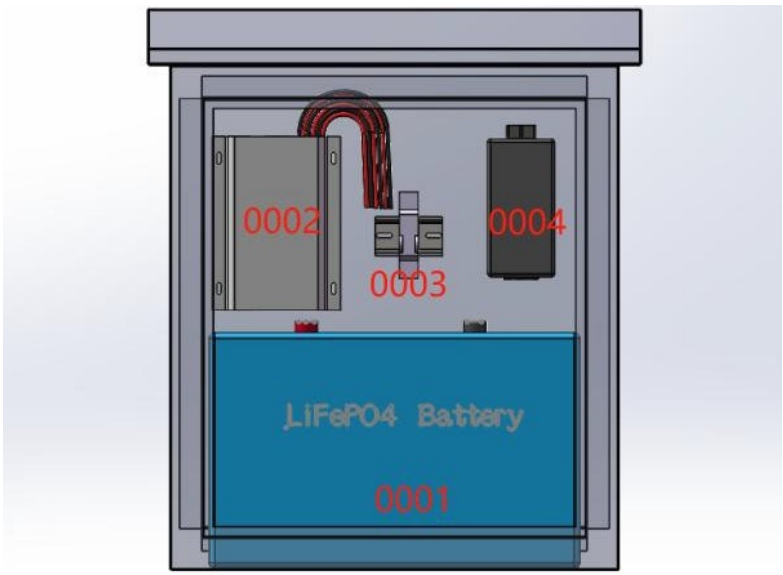
SPECIFICATIONS	
Parameter	**Description**
Controller Type	MPPT
Overcharge Protection	14.6V
Over-discharge protection	8.0V
Over-discharge recovery volts	12.5V
Controller Self Consumption	<0.25W
Enclosure Type	SUS304 Enclosure
Enclosure External Size	Customized (400*500*300mm) 400*500*250mm
Enclosure Internal Size	Customized (385*450*285mm)385*450*225mm
Enclosure Thickness	1.5mm
Solar Panel Dimension	(760 *730*25mm/each) ,total: 2PCS
Operating Temperature	Discharging：-20°C to +55°C Charging: 0°C to +45°C
System Weight (no batteries)	40kg
Battery Weight with enclosure	12 kg

Items Inside The Enclosure

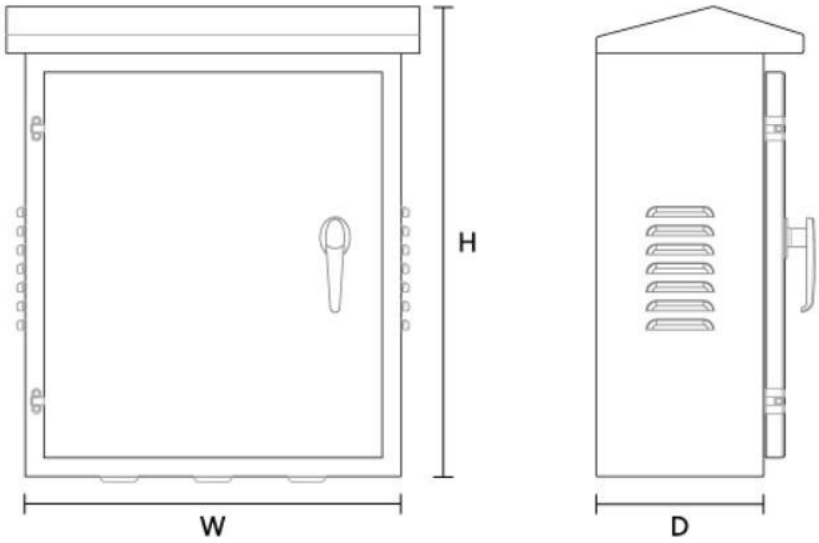


Items	Description
0001	12.8V 100Ah LiFePO4 battery
0002	MPPT Solar charger controller
0003	Circuit Breaker
0004	POE Injector
Others	SPD if necessary 5V Regulator, 12V Regulator if required PTC, Fuse

Caution:

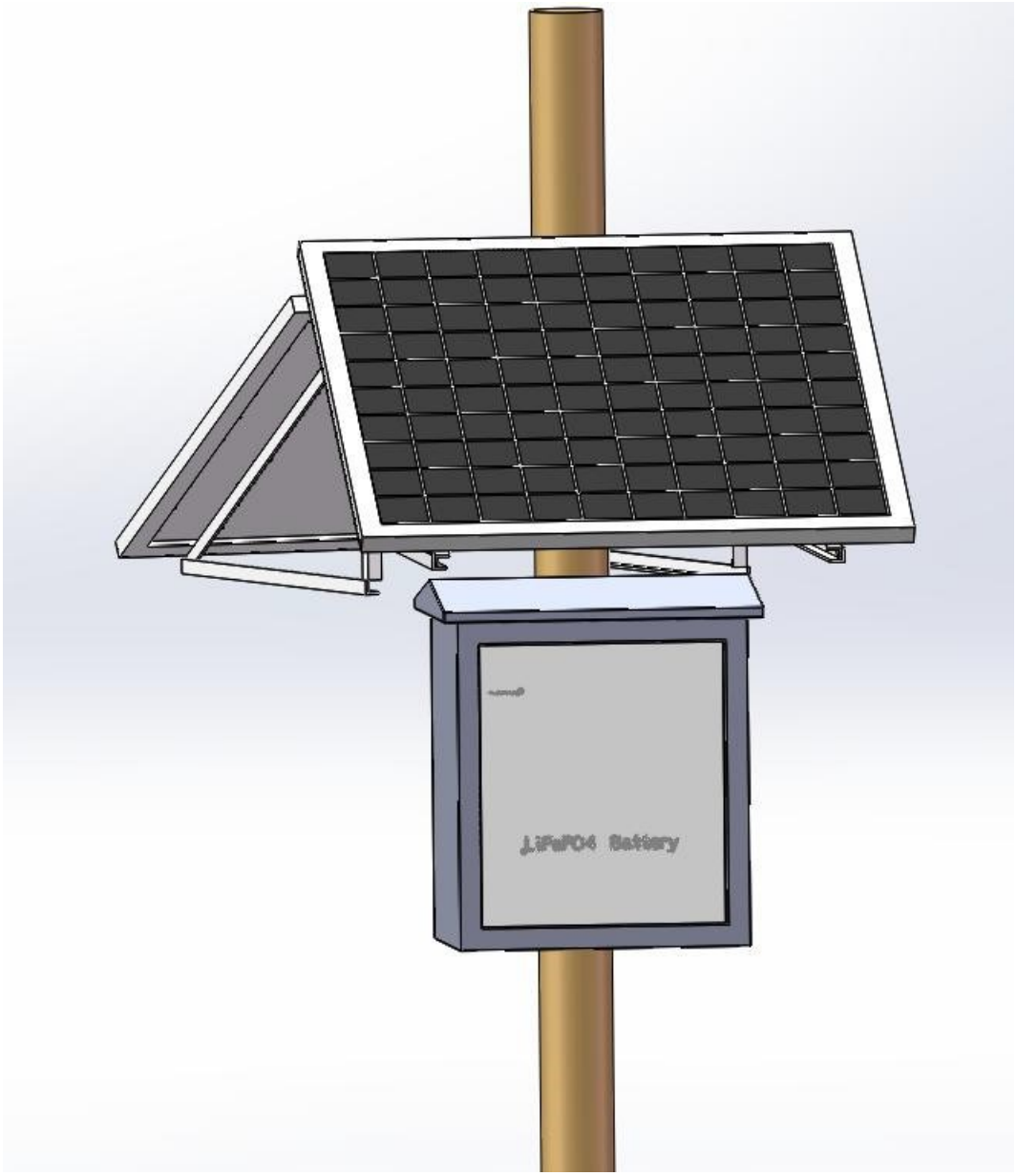
1) The LiFePO4 battery couldn't be charged below 0℃,It will need a extra device.to stop the solar charger controller charging the battery.in cold places.
2) In cold places, the LTO battery is the best solution, such as in Canada,North Europe.
3) If there are frequent thunderstorms in the equipment's location, please consider lightning protection.

Size of the Enclosure



W	H	D
400mm	500mm	250mm

Solar System Installation



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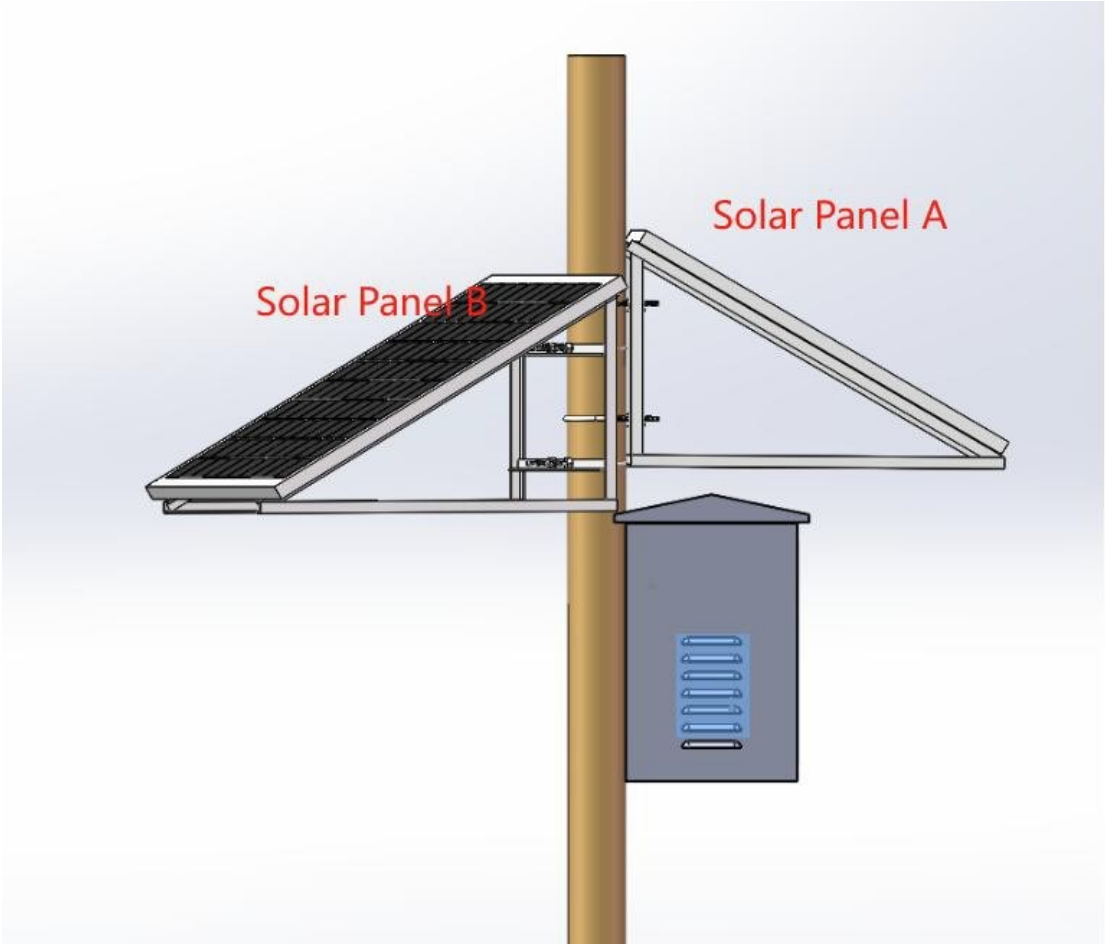

The shorter the distance between solar panel A and solar panel B, The better.

If the distance is too far, solar panel B will be covered by the shadow generated by the solar panel A. This will affect the efficiency and lifespan of the solar panel B.