

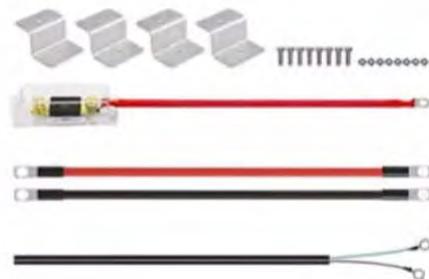
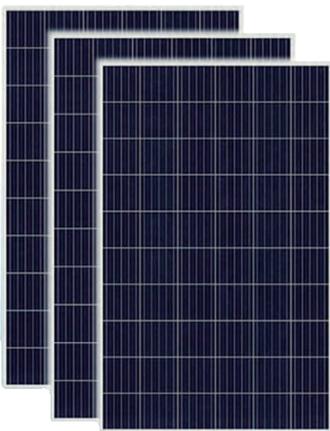
Off-grid Solar Power System 5.5KW with lithium battery



5500W SOLAR SYSTEM

Package included

- 24 pcs 200W Monocrystalline Solar Panel
- 3 pc 48V 150Ah LiFePO4 Lithium Iron Phosphate Battery
- 3 pair of Y Branch Solar Panel Connector
- 20 pcs Z Mounting Brackets
- 1 pc 16ft/5M 8AWG Solar-Controller Cable & 6 pairs of 16ft 11AWG Solar Extension Cable
- 2 pairs of 1ft 10AWG Lithium Battery Cable
- 1 pc 5500W 48V Solar Hybrid Inverter
- 1 pc 4 Strings Combiner Box



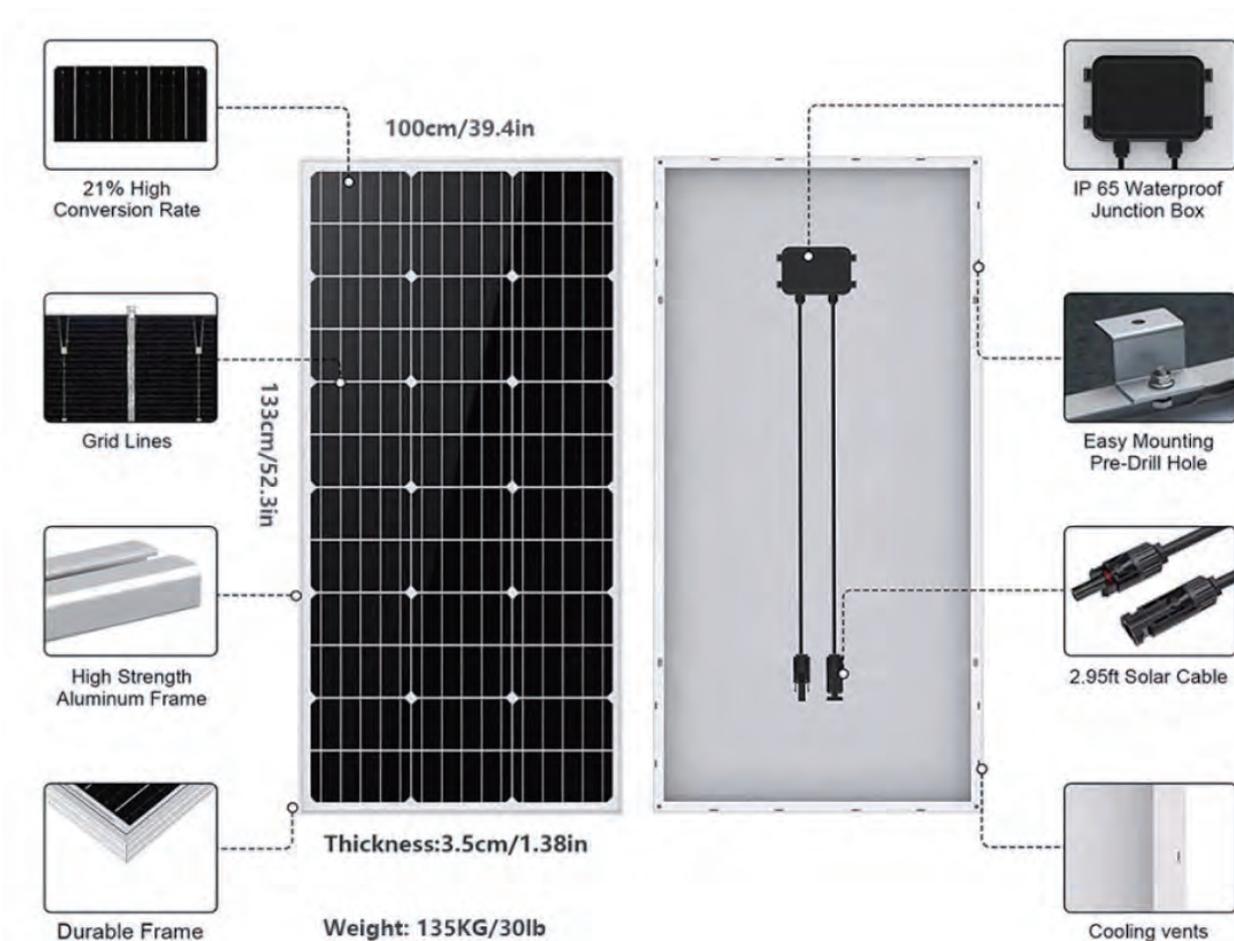
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Monocrystalline Solar Panel

Installation Guide

- Step 1: Connect the 48V 150Ah battery pack to the controller
- Step 2: Connect each two 12V 200W solar panels in series to make twelve 24V 400W solar panel groups
- Step 3: Connect the twelve 24V 400W solar panel groups to the 4 string combiner box
- Step 4: Connect the combiner box to the controller, make sure the combiner box is off
- Step 5: Connect the inverter with the battery pack
- Step 6: Turn on the inverter and done

SYSTEM DIAGRAM



- Multi-layered sheet laminations enhance cell performance and provide a long service life
- Withstand 2,400 Pa of high wind and 5,400 Pa of non-uniform snow load



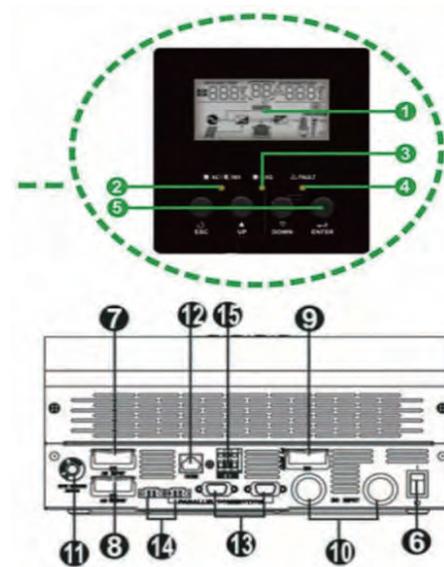
Solar Hybrid Inverter

SOLAR PANEL MOUNTING SYSTEM

STURDY LONG RODS SUPPORT FOR 1-4 PCS PANELS
DURABLE STAINLESS STEEL FOR RUST PREVENTION
ADJUSTABLE ANGLE FOR DIFFERENT LATITUDES AND STATES



Solar Hybrid Inverter



Solar Hybrid Inverter

- | | | |
|--|---------------------|------------------------------|
| 1. LCD display | 2. Status indicator | 3. Charging indicator |
| 4. Fault indicator | 5. Function buttons | 6. Power on/off switch |
| 7. AC input | 8. AC output | 9. PV input |
| 10. Battery input | 11. Circuit breaker | 12. RS232 communication port |
| 13. Parallel communication cable (only for parallel model) | | |
| 14. Current sharing cable (only for parallel model) | | 15. Dry contact |

About 4800W Solar System Solution

(Ideally Output power): The power of 19.2KWh per day under 4 hours full sunshine by the 4800W solar panel system, very suitable for home, shed, cabin, farm or other energy backup, and it will provide enough power for portable ac, air condition, TV, refrigerator, coffee maker, microwave and other AC 110V/220V devices.

(Durable Solar Panel): Monocrystalline panel's compact design with the size of 58.3" * 26.2" * 1.4" (Length, width and height). Aluminum frame and tempered glass panel extended outdoor use, allowing the panels to last for decades. The IP66 waterproof panel can also withstand high winds (2400Pa) and snow loads (5400Pa).

(Hybrid solar charger inverter): Composed of 6200W 48V DC-110V/240V AC pure sine wave inverter and 80A MPPT controller. Not only can it be used off-grid, but when there is no sunlight, it can also receive electricity from the grid to charge the battery to meet all-weather use, which will protect appliance life with no electromagnetic pollution and has 99.9% high efficiency power.

(High Capacity Li-Battery Bank): With 21600 Wh of 3pcs 48V 150Ah lithium batteries, which have higher charging/discharging efficiency and more than 6000 times deep cycles than lead acid batteries. Built-in BMS chips (battery management system), can also prevent the lithium battery from getting damaged and provide double protections.

(Warm After-Sales Service): The ready-to-use solar power system includes 24pcs 200W solar panel, 1pc 5500W 48V hybrid solar charger inverter, 3pcs 48V 150Ah LiFePo4 batteries, 1pc 4 strings PV combiner box as well as accessories needed. These items will be sent in separate packages and 2 year WARRANTY is provided. Any other questions, please feel to contact us.



Lithium LifePO4 pack



High Energy Density

LiFePO4 batteries store much more energy compared with lead-acid batteries. LiFePO4 batteries have a deep charge rate providing maximum versatility.



Eco Friendly

LiFePO4 batteries use more abundant and non-toxic materials that can be produced with less energy and easy to recycle.



Powerful

LiFePO4 are nearly 4 times as powerful as SLA and can provide more time of use.



Long Service Life LiFePO4 Batteries

These batteries will provide you with 6000 complete charge and discharge cycles.



Light Weight

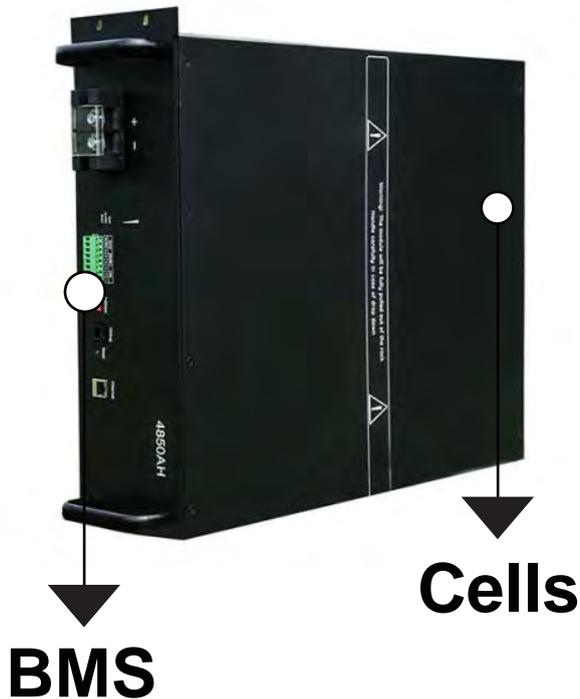
Conveniently light as well as powerful making LiFe Batteries very versatile.

High Efficiency

LiFePO4 Batteries have a flatter discharge curve that holds above 48 volts for up to 90% of its usage capacity. It consumes an even amount of energy efficiently, allowing for longer use and without significant fluctuations in energy consumption. By contrast, Sealed Lead-Acid Batteries (SLA) increase their consumption rate as they discharge and this consumption rate becomes even greater when SLA Batteries hit 50%.



LifePO4 INTERNAL COMPONENTS



BMS

Our battery management system utilizes only the highest quality components and is manufactured specifically for our LiFePO4 cells to boost performance and maximize lifespan, as opposed to competitors who source boards and parts from various, unreliable suppliers.

Cells

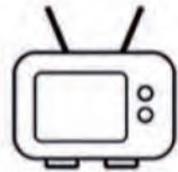
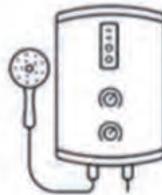
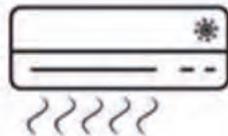
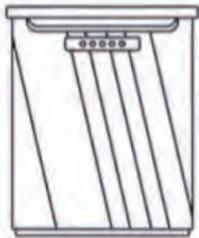
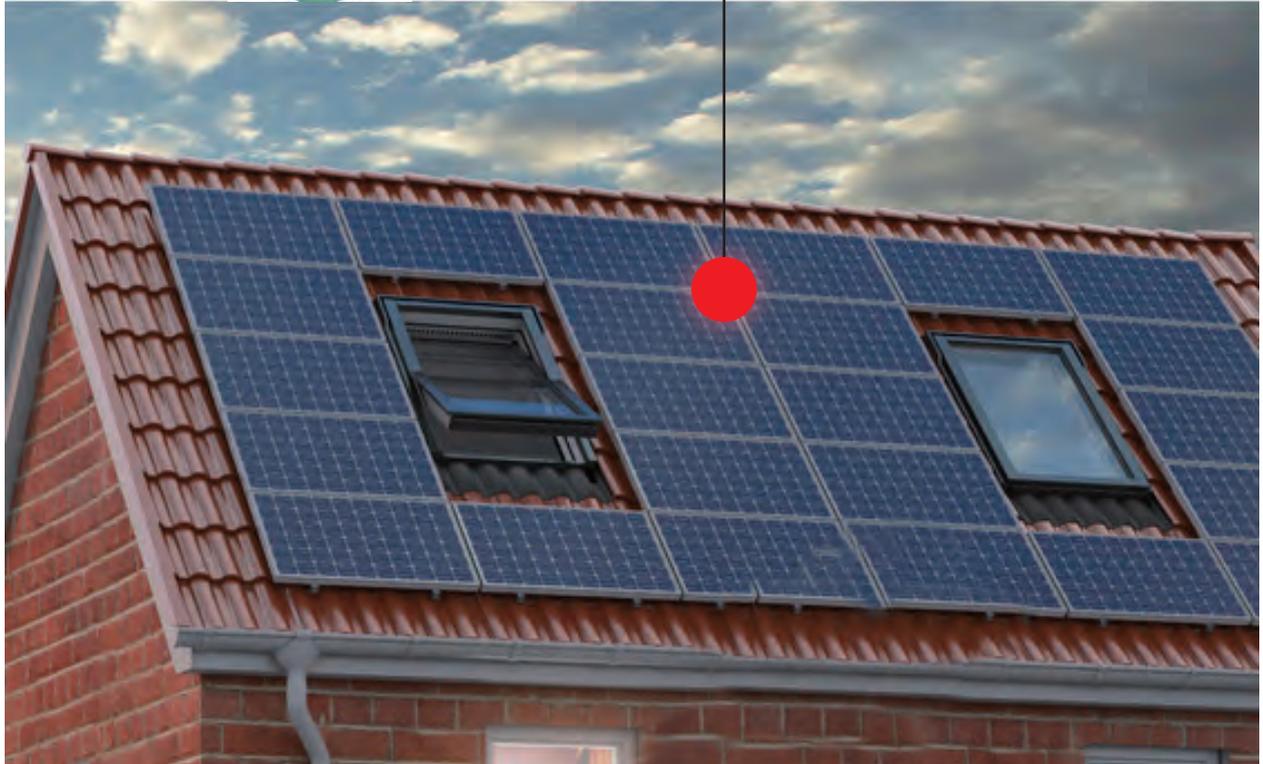
- Our cells undergo a strict and selective quality control process that ensures only the best A-grade cells make it into the final battery
- The cells are certified with UL1642 as a testament to their safety and performance
- Any cell that reaches the final stage of production is confidently given an official rating of up to 7000 cycles

LiFePO4 vs SLA Batteries



GENERATE 19.2 KWH/DAY

UNDER 4 HOURS FULL SUNSHINE



Freezer	Air conditioner	Water heater	Microwave	TV
200W	1200W	1500W	800W	300W



// GENERATE 19.2 KWH/DAY

The Lower Cost The More People Using Solar Power

To get 1 KWH electricity from solar panel system, now people have to invest over 500 dollars, much expensive compared with utility power.

Our mission is to make solar products' cost down and more people enjoy life far away from the city.

—Cloud Energy Team

HOUSE OR SHED

5500W Complete Solar System

5500W Off-grid Solar power system, generating 19.2KWh per day depends on the 4 hours sunlight availability, which can be able to satisfy your daily household electricity consumption. This kit is great choice for holiday homes, cabins, workshops, remote offices, stables, and other places where is lack of sufficient electricity.

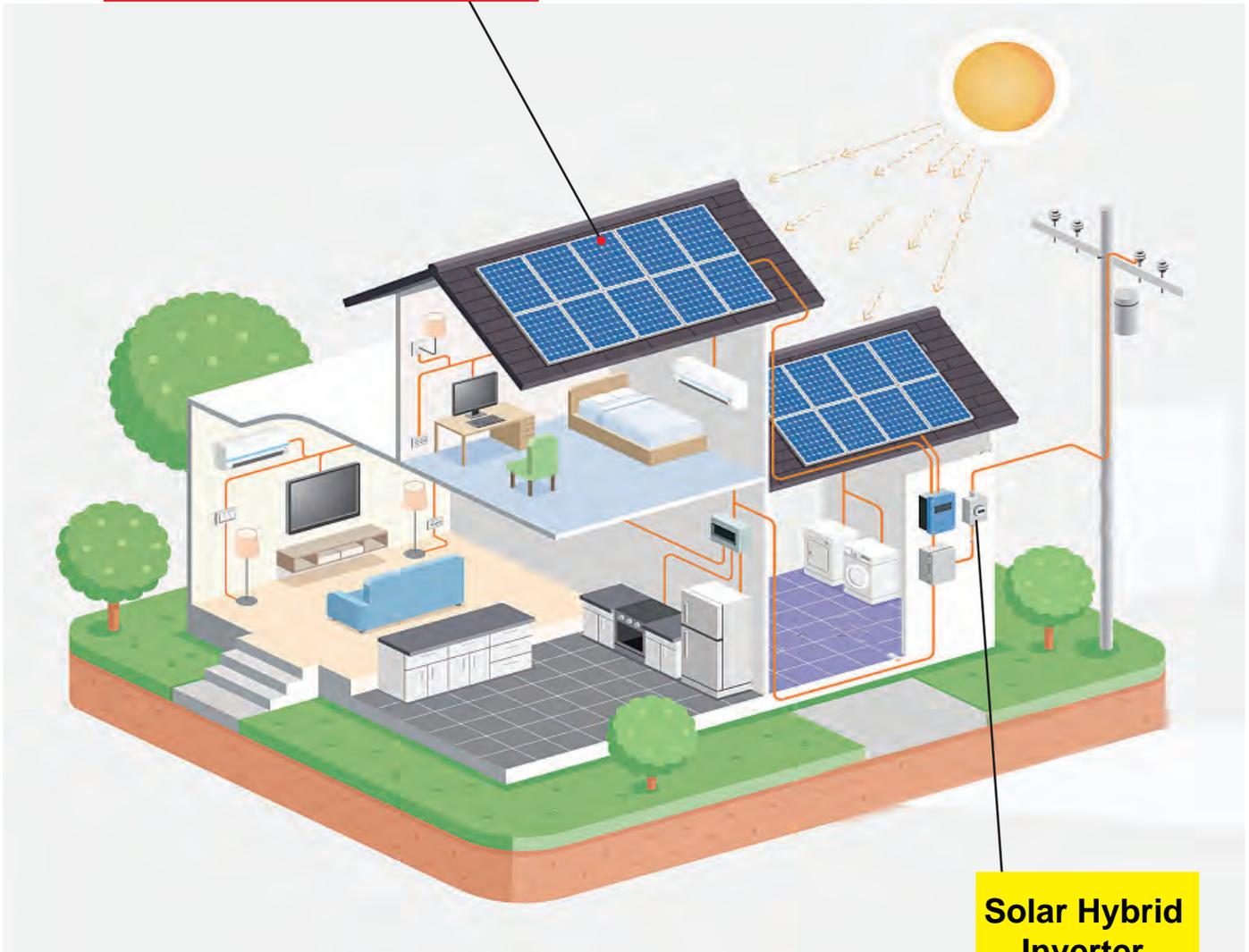
This is a complete solar system includes inverter and lithium battery, no need to buy extra parts or accessories. Enclosed the user manual on our page, helps you to install this system. By the way, please note that the system will be shipped in several packages to prevent the items from getting damaged.



GENERATE 19.2 KWH/DAY

**24 Pcs 200W
Monocrystalline Solar Panel**

CAN INCREASE 200W 18V 24 PCS



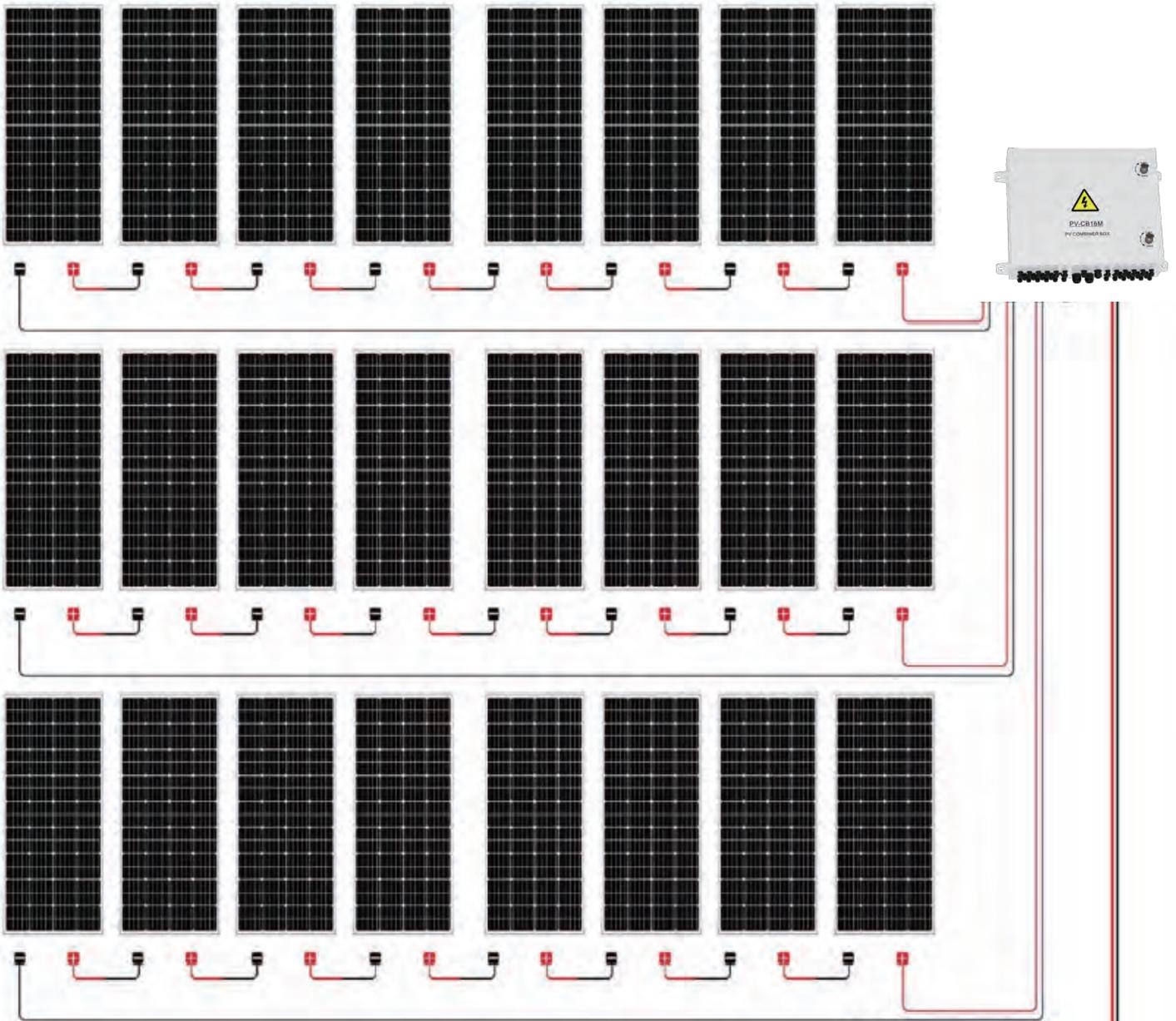
**Solar Hybrid
Inverter**

**3 Pcs 48V 150A
LiFePO4 Packs**

CAN INCREASE 150AH 48V 4 PCS



GENERATE 19.2 KWH/DAY



5500W Solar System Accessories combination



GENERATE 19.2 KWH/DAY

Why do I choose this ALL-IN-ONE Inverter?

[AC priority power supply mode]:

When the mains power is available, the mains power is given priority to the load. When the mains is abnormal, it is automatically switched to photovoltaic power supply, and the load is supplied by the battery inverter at this time. When the utility power returns to normal, it automatically switches to the mains to supply power to the load. (The AC charger starts in this mode and will continue to charge the battery Electricity)

[Battery priority power supply mode]:

When the battery has power, priority is given to the load by the battery. When the battery power is insufficient, it will automatically switch to mains power supply. When the battery is fully restored, it will automatically switch to the battery powered by. (AC charger is prohibited in this mode, no longer charge the battery)

4 STRINGS COMBINER BOX



Lightning Protection



Ground wire connection



Independent fuse



Connect solar panel and charge controller



Connect battery and charge controller



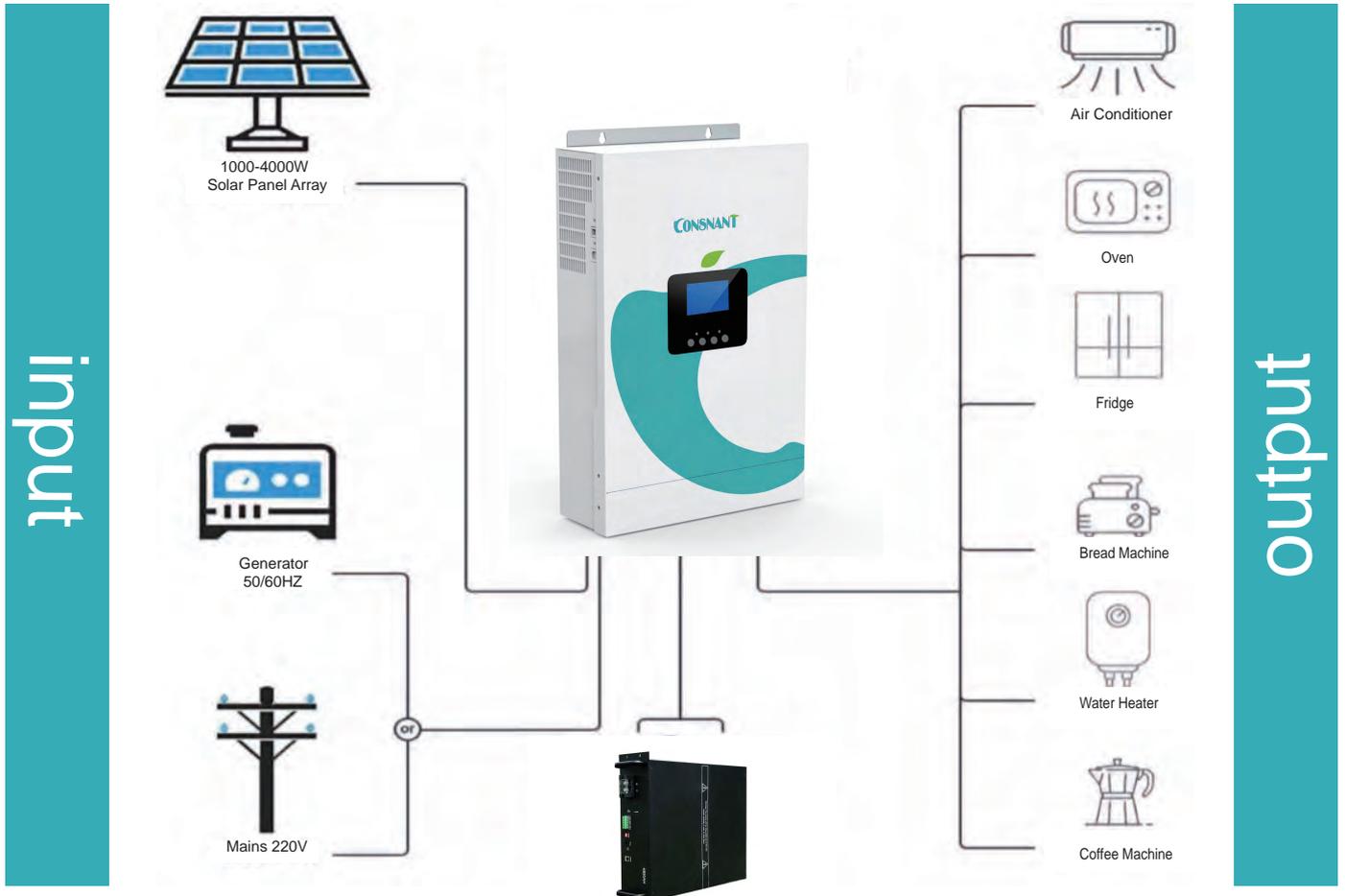
Connect battery and battery



Z shape mount brackets

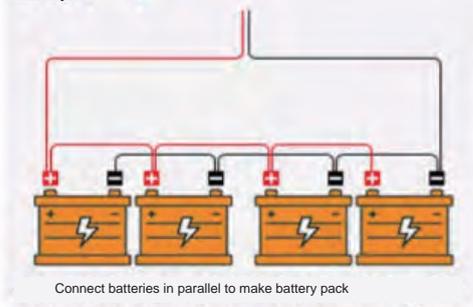


HOW IT WORKS



6-STEP INSTALLATION

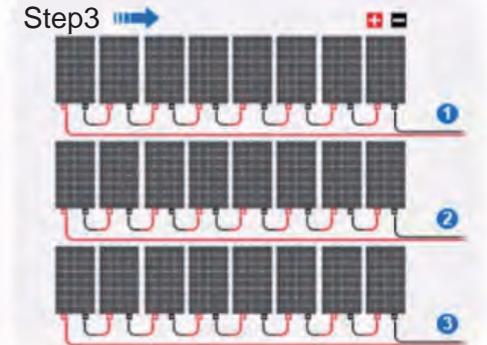
Step1 →



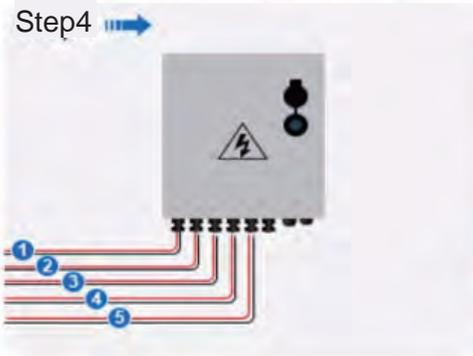
Step2 →



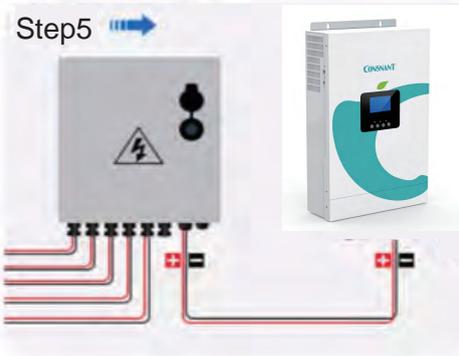
Step3 →



Step4 →



Step5 →



HOW IT WORKS

4800W Solar System Contains

24 pcs 200W Monocrystalline Solar Panel
1 pc 5500W Solar Hybrid Inverter
3pcs 48V 150Ah LiFePO4 Lithium Iron phosphate Battery
3 pair of Y Branch Solar Panel Connector(parallel connection)
1 pair of 5M/16.4ft 12AWG Solar Extension Cable
6pc 6.56ft 11AWG Controller-battery Extension Cable
1pc 4 Strings Combiner Bos
20 set Z Mounting Brackets
2 pairs of 1ft 10AGW lithium battery Cable



OUTDOORS



RV



SHED



BOAT