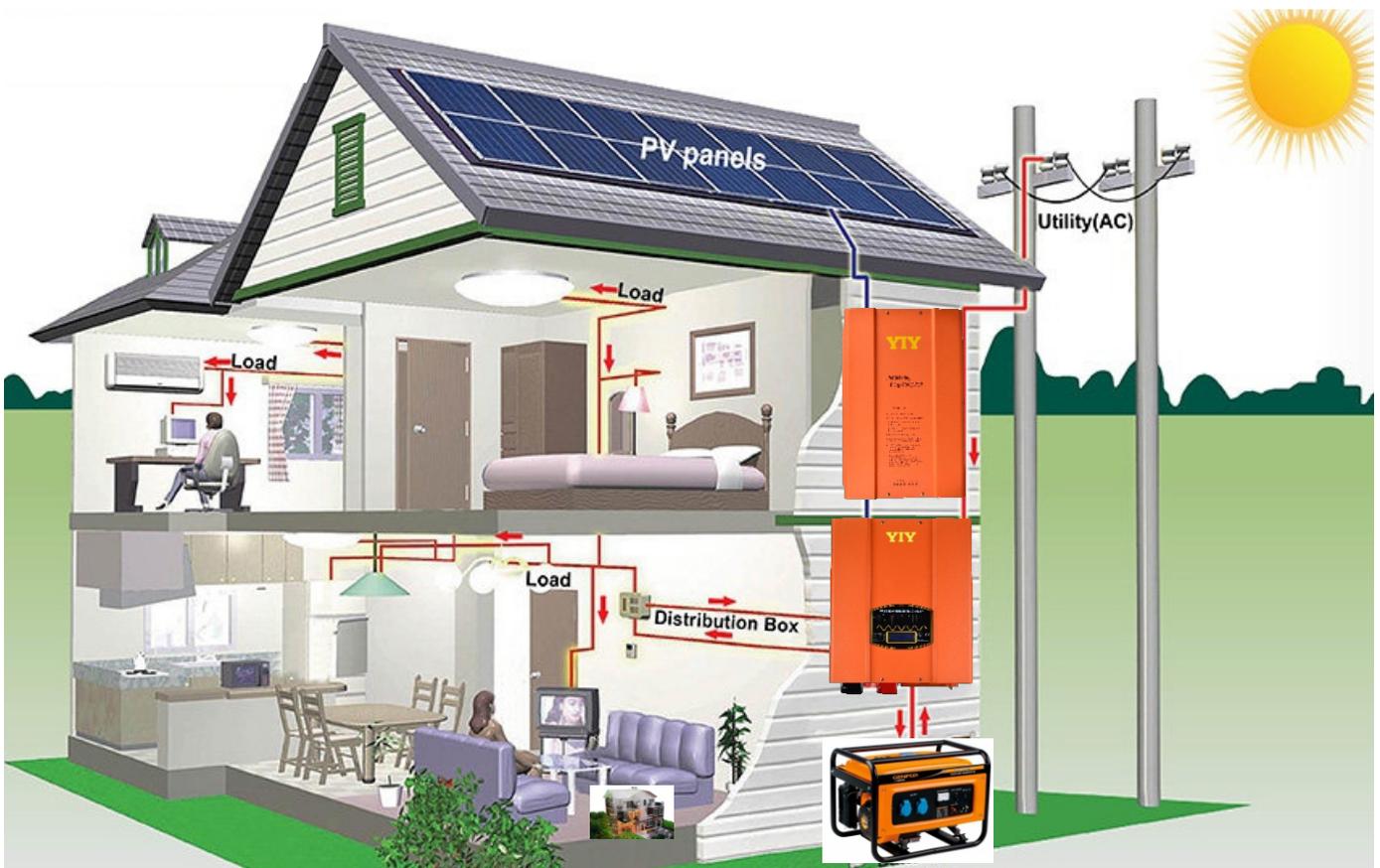


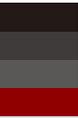
## ● Battery Energy Storage System(ESS)



- ◆ 32pcs 50Ah LiFePO4 battery, 16S2P
- ◆ 51.2Vdc 100Ah 5.2Kwh rated capacity
- ◆ Long cycle life 3500 times at least on 80% DOD
- ◆ Customized charger make system life maximization
- ◆ High reliability intelligent **BMS**
- ◆ Unique automatic calibration active balancing technology BMS system
- ◆ **51.2Vdc voltage output**, suitable for home energy storage system, communication stations and other application
- ◆ Standard **CAN & RS485** communication port, can meet the requirement of several packages to connect in parallel, Master & Slave relationship, Monitor and otherprolongation functions.

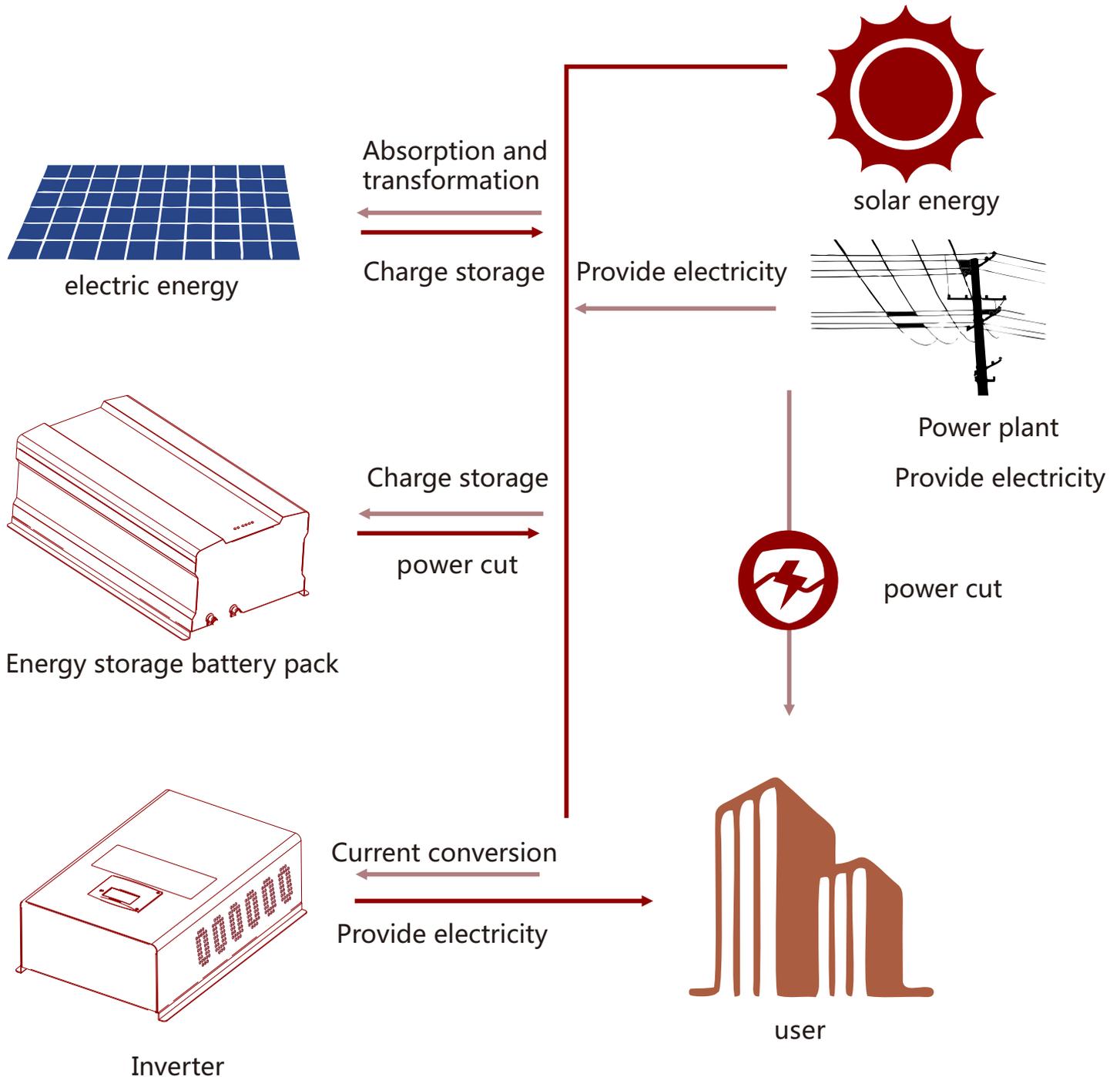


# Battery Energy Storage System(ESS)

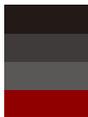


## **Operational Principle**

Energy storage in power system including solar panels, inverter (for AC and DC conversion), and provide backup power for the main electrical backup lines. Household electricity demand different choice of different components.



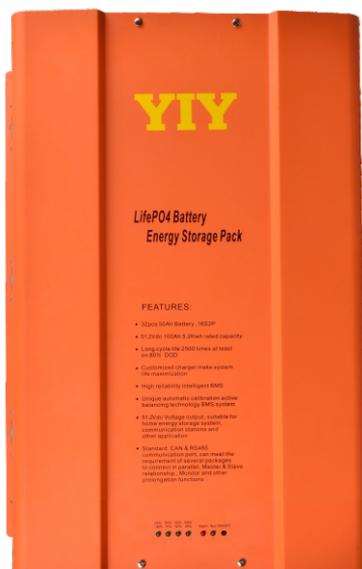
# Battery Energy Storage System(ESS)



## Main Parameters & Specifications

No.	Item	Parameters
1	Combination Method	16 Series 2 Parallel
2	Rated Voltage	51.2V
3	Rated Capacity	100Ah
4	Rated Energy	5.12KWh
5	Voltage Range	40-56Vdc
6	Cooling Method	Natural cooling
7	Max Charge Current	1C
8	Charge Current	30A(0.3C)
9	Discharge Current	100A(1C)
10	Work Temperature on Charge	0°C~45°C
11	Work Temperature on Discharge	-10°C~55°C
12	Storage Temperature	-20°C~45°C ( In one month )
		0°C~35°C ( In one year )
13	Storage Humidity	<70%
14	Pack Dimension	680±2×400±2×235±2mm
15	Pack Weight	68±2kg

5.2kwh



2.6kwh



# Battery Energy Storage System(ESS)



## Main Components In Pack

Components		Speci cation	pcs
Chassis		680*400*235mm (L*W*H)	1
Battery Cell		50Ah 3.2V	32PCS
Electronic	Breaker	100A1P 80Vdc	1PCS
	LED	LED Indicator board	1PCS
	Communication	RS485 & CAN board	1PCS
	Positive	300A terminal Red	1PCS
	Negative	300A terminal Black	1PCS
BMS	Main Control Module	BSN01	1PCS

## Ess monitor

