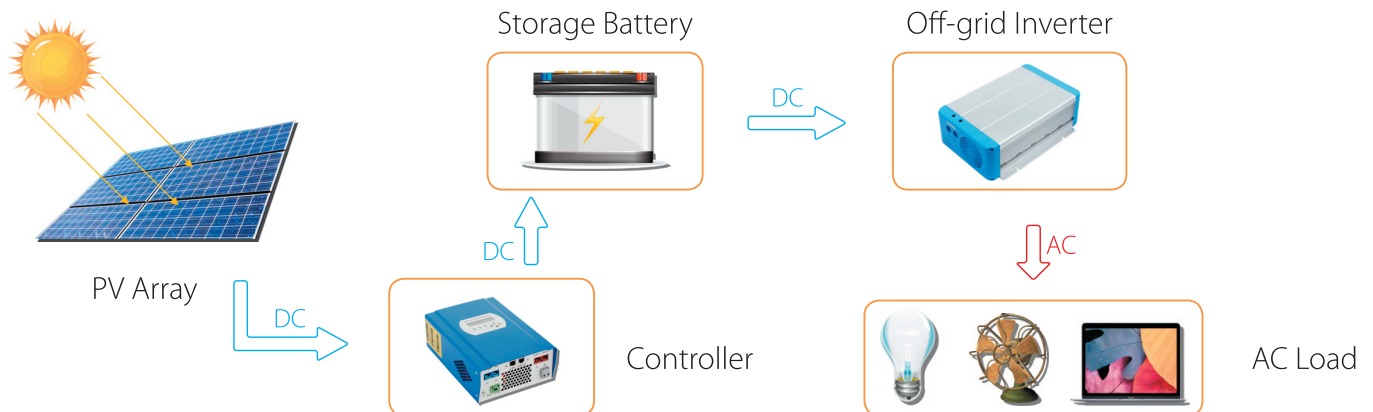
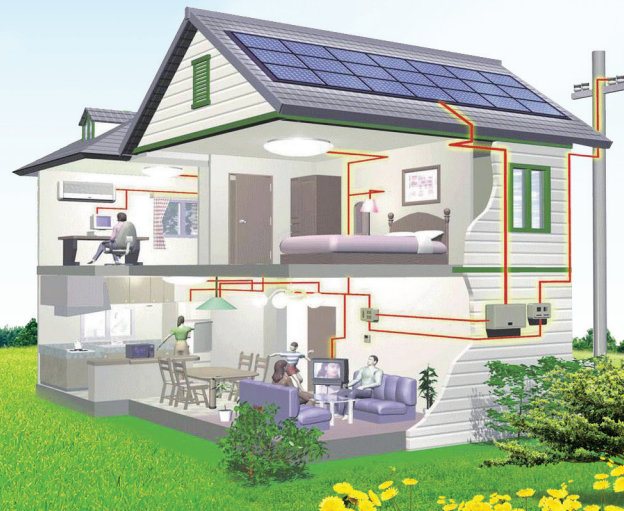


Off-grid System Diagram



Features & Applications

- High performance in power generation.
- Reliable and durable for long-time running.
- Components: solar module, controller, battery, inverter, cable, mounting racks.
- Applicable for areas which have poor access to power grid like remote islands, mountainous areas, villages etc.
- Lightweight, portable and easy for installation and maintenance.



Model	ES-100W Off-grid	ES-400W Off-grid	ES-1080W Off-grid
Solar Module			
Type	Poly 100W	Poly 100W	Poly 270W
Quantity	1pc	4pcs	4pcs
Open Circuit Voltage (Voc)	22.2V	22.2V	38.72V
Short Circuit Current (Isc)	5.78A	5.78A	9.31A
Maximum Power Voltage (Vmp)	18.43V	18.43V	30.97V
Maximum Power Current (Imp)	5.43A	5.43A	8.72A
Cable	2x4mm²x0.6m/pc	2x4mm²x0.6m/pc	2x4mm²x0.9m/pc
Controller			
Rated Voltage	12V	24V	24V
Max.PV Charging Current	10A	20A	40A
Max. PV Input Voltage	100V	100V	93V
Constant Charging Voltage	14.2V	28.4V	28.6V
Float Charging Voltage	13.8V	27.6V	27.2V
Charging Model	MPPT		
MPPT Voltage	2-72V	2-72V	35-90V
Storage Battery			
Type	Lead-acid 12V 50AH	Lead-acid 12V 100AH	Lead-acid 12V 200AH
Quantity	1pc	2pcs	2pcs
Charging Voltage	12V	24V	24V
Off-grid Inverter			
Rated Power	130W	2000W	3000W
Peak Out Power	195W	4000W	6000W
AC Output Waveform	Pure sine wave		
Voltage	220V	220V	220V
Low-voltage Disconnection	11.1V DC	20V DC	20V DC
Frequency	50Hz		
Overload Capacity	>135% 10s; >150% 2s	>120% 1 min; >130% 10s	
Cable			
DC Cable (outside) PV Module to PV Controller	PV1-F 1*4mm²	PV1-F 1*4mm²	PV1-F 1*4mm²
DC Cable (inside) PV Controller to Battery Battery to PV Inverter	RV 1*4mm²	RV 1*16mm²	RV 1*25mm²
Solar Mounting Racks			
Installation Site	N/A	Apply for commercial and residential roofs.	
Racking Angle	N/A	Along the pitched roof direction, racks can be customized according to customer requirements.	
Material	N/A	Rails (beams) and clamps are AL6063 T5 aluminum, oxide with film minimum thickness 15µm. The hooks, bolts and nuts are stainless steel 304.	
General			
Working Conditions	Temperature -25℃~60℃		
	Humidity ≤95%		
	Degree of protection IP65		
Self-protection	Overload output, short-circuit, high-voltage input, low-voltage input, overheat		
	Accept customization		