

## Off-grid Solar Home System

Model No.: GPSS-2500W



- ◆ 5~6 hours operating time daily
- ◆ 2 system autonomy days
- ◆ Ease of installation and operation
- ◆ Long life span
- ◆ Maintenance free
- ◆ Energy saving

This 2.5kW solar home system is specially designed to satisfy with the electricity needs of residential

application, which could be built either on the rooftop or on the ground as to produce and supply independent, continuous as well as safe and clean energy for house appliances. It is a perfect turnkey solution to exploit solar energy and save the electricity bill, daily electricity output could reach up to **10~12.5kwh**.

### Technical Specification

Maximum Power	2500W
Rated Voltage	48Vdc
Rated Current	52A
Output Voltage	220Vac/110Vac
Output Frequency	50Hz/60Hz
Autonomous days	2
System Efficiency	90%
Solar Panel	14*180W Mono or polycrystalline silicon module
Solar Controller	48V45A Intelligent solar controller
Solar Inverter	3kVA Pure sine wave inverter
Battery(optional)	12*12V200Ah Maintenance-free Gel or AGM battery
Mounting type(optional)	Rooftop or ground
Cable	20m 2*16mm <sup>2</sup> copper-core wire
System Size	1.3 cbm
System Weight	980 kgs
Container Capacity (20ft)	18 sets

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## Loads Reference

Items	Loads	Qty	Power(w)	Working hours(hrs)	Power consumption per day(wh)
1	Refrigerator	1	100	24	2400
2	TV	1	90	6	540
3	LCD Computer	1	100	5	500
4	Water Pump	1	200	1	200
5	Light Bulb	6	20	6	720
6	Rice Cooker	1	1000	1	1000
7	Air Conditioner	1	1000	6	6000
In total					11360

## Project Pictures



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