



# **SOLAR HOME POWER SYSTEM FOR OFF-GRID AREAS**

# COMPANY PROFILE

Ningbo Yiteng Electric Co., Ltd Develops, Designs, Manufactures and Sells innovative portable power products and solar power products for outdoor and residential usage.

In the following catalog, we present home solar power system for off-grid areas.

To provide innovative & reliable solar products to help off-grid population improve their life quality with green solar energy.



SMT workshop

DIP workshop

Injection molding workshop

Assembly workshop

## Our Advantages



**Quality guarantee**  
Strict quality control  
3 years of guarantee



**Manufacturer RND**  
Direct factory,  
13 experienced R&D  
team members



**Competitive price**  
Location in China,  
organized  
production process



**Verasol certified**  
Passed Verasol test,  
reliable



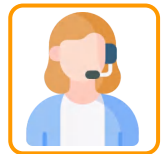
**OEM/ODM service**  
Flexible ways of  
cooperation



**Inner laboratory**  
We proceed essential  
test in factory



**Advantageous payment terms**  
Profitable payment terms  
for long term customers



**Customer service**  
Customer care service,  
12 hours support

Yiteng R&D Center integrates hardware development, software development, structural design, mold design, product testing, and material procurement as a professional team for efficient new product development.

Inner laboratory equipped with a series professional equipment for new product development and daily quality test.



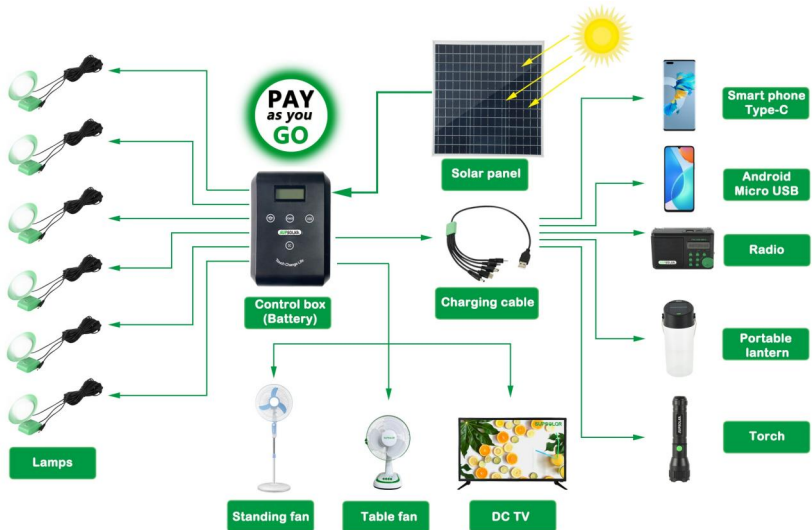
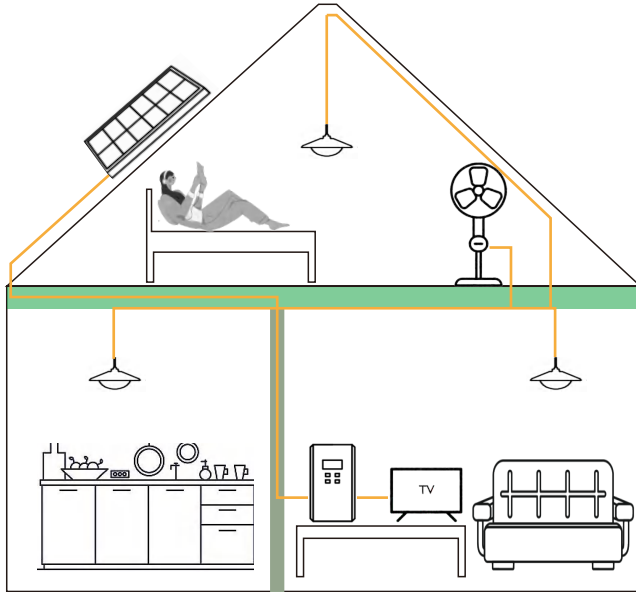
## R&D Department



## Testing Capability



## How do solar home power system works?

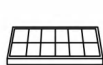




## Product information:

Solar home power system offer an excellent option for off grid energy supply, especially for who live with unreliable or insufficient electricity service. Solar home system are gaining more and more popularity within the population.

## SS-E Series



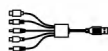
Solar panel



Battery



Lamp



Charging cable



Radio



Portable lantern



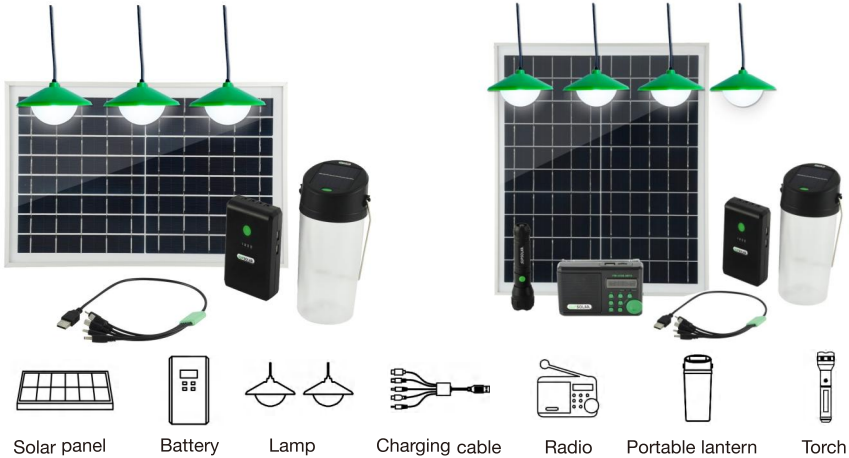
Torch

## Technical specifications

Model NO.*	SS-E01	SS-E02	SS-E03	SS-E04	SS-E05
Solar panel	8V 4W			8V 6W	8V 8W
Battery	3.2V3300mAh LiFePO4			3.2V6000mAh LiFePO4	
LED lamps	2pcs*1W		3pcs*1W	3pcs*1W	4pcs*1W
Radio	/	/	/	/	1pcs
Portable lantern	/	1pcs	/	1pcs	1pcs
Torch	/	/	/	1pcs	1pcs
Charging cable	Type - C USB, Micro USB, Mini USB, DC2.0, DC3.5				
Input & output	Solar & DC/USB				
Light ports	4pcs				
USB output	5V1A*2pcs				
Full-Charged Time(Sunny)	6-7 h			7-8 h	6-7 h
Working Time	4.5-9.5h with two bulbs		3-6 h with three bulbs	5.5-11.5 h with three bulbs	4-8.5 h with four bulbs
Operation Temp & Hum	-10°C-50°C/10%-90%				
Protection	Overcharge and Over discharge Protection				

\*Component are selectable according to your need

## SS-M Series

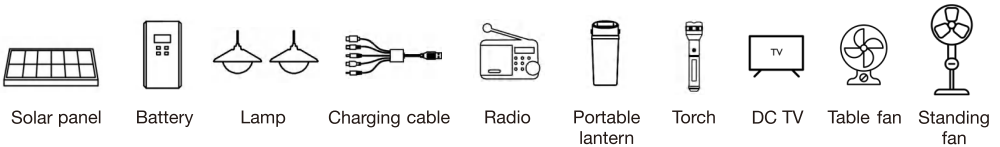


### Technical specifications

Model NO.*	SS-M01	SS-M02	SS-M03	SS-M04	SS-M05
Solar panel	10V 10W		10V 15W	10V 20W	10V 10W
Battery	6.4V3300mAh LiFePO4		6.4V6000mAh LiFePO4		
LED lamps	3pcs*2W	2pcs*2W	3pcs*2W	4pcs*2W	4pcs*1W
Radio	/	/	1pcs	1pcs	1pcs
Portable lantern	1pcs	1pcs	1pcs	1pcs	1pcs
Torch	/	1pcs	1pcs	1pcs	1pcs
Charging cable	Type - C USB, Micro USB, Mini USB, DC2.0, DC3.5				
Input & output	Solar & DC/USB				
DC output	4pcs				
USB output	5V1A*2pcs				
Full-Charged Time(Sunny)	5-6 h		6-7 h	5-6 h	7.5-8.5
Working Time	3-6.5 h with three bulbs	4.5-9.5 h with two bulbs	5.5-11.5 h with three bulbs	4-8.5 h with four bulbs	8-17 h with four bulbs
Operation Temp & Hum	-10°C-50°C/10%-90%				
Protection	Overcharge and Over discharge Protection				

\*Component are selectable according to your need

## SS-P Series



### Technical specifications

Model NO.*	SS-P01	SS-P03	SS-P05	SS-P07	SS-P09
Solar panel	18V 25W	18V 40W	18V 40W	18V 40W	18V 60W
Battery	12.8V6000mAh LiFePO4	12.8V12000mAh LiFePO4			12.8V18000mAh LiFePO4
LED lamps	4pcs*1W	6pcs*2W	2pcs*2W	4pcs*3W	6pcs*3W
Radio	1pcs	1pcs	1pcs	1pcs	1pcs
Portable lantern	1pcs	1pcs	1pcs	1pcs	1pcs
Torch	1pcs	1pcs	1pcs	1pcs	1pcs
Charging cable	Type - C USB, Micro USB, Mini USB, DC2.0, DC3.5				
DC TV	17" 1pcs	24" 1pcs	/	/	32" 1pcs
Table fan	/	/	12" 1pcs	12" 1pcs	/
Standing fan	/	/	/	/	16" 1pcs
Input	Solar				
Output	DC(7pcs)/USB(2pcs)				
Full-Charged Time(Sunny)	7.5-8.5 h	9.5-10.5 h			
Working Time	5-6 h with four bulbs & TV	5-7.5 h with six bulbs & TV	9-11.5 h with two bulbs & fan	7-10h with four bulbs & fan	4.5-6 h with six bulbs & TV & fan
Operation Temp & Hum	-10°C-50°C/10%-90%				
Protection	Overcharge and Over discharge Protection				

\*Component are selectable according to your need

## Product information:

The control box is an essential component of a solar home power system that helps ensure reliable and efficient delivery of DC power to lamps, radio, torch etc from solar panels.

Yiteng also provides “Pay as you go” system which allows users to pay for their energy use on a pay-as-you-go basis, rather than having to make a large upfront investment in the system.



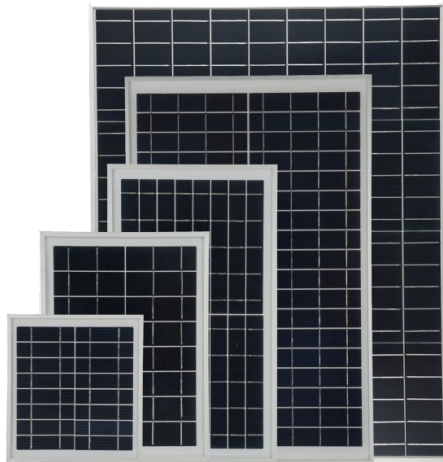
## Battery (Control box)

### Technical specifications

ItemNO.	Battery type	Rated voltage(V)	Ampere hour(Ah)	Input	Full-Charged Time(Sunny)	DC Output	USB Output	Operation Temp& Hum	Protection
ECU01	LiFePO4 (Lithium iron phosphate battery)	3.2	3.3	Solar	6-7 h	4pcs	5V1A	-10°C-50°C/10%-90%	Overcharge and Over discharge Protection
ECU02			6.0		7-8 h				
ECU03			6.3		6-7 h	DC6.4V1A	*2pcs		
MCU01		6.4	3.3		5-6 h	4pcs	5V1A		
MCU02			6.0		6-7 h				
PCU01		12.8	6.0		7.5-8.5h	4pcs	2pcs		
PCU02			12.0		9.5-10.5h				
PCU03			18.0						

## Product information:

Solar panels are devices that convert sunlight into electricity using photovoltaic cells. When sunlight hits the cells, they create a flow of electrons, generating direct current (DC) electricity.



## Solar panels

### Technical specifications

ItemNO.	Celltype	Output voltage(V)	Output power(W)	Max Current(A)	Shortcircuit current(A)	Opencircuit voltage(V)	Cable length	Dimension (cm)
SS-PV0804P	Polycrystalline silicon	8	4	0.5	0.55	9.6	6m	18.5*20*1.7
SS-PV0806P		8	6	0.75	0.82	9.6		18.5*25*1.7
SS-PV0808P		8	8	1.0	1.1	9.6		20*35*1.7
SS-PV1010P		10	10	1.0	1.1	12		24*35*1.7
SS-PV1012P		10	12	1.2	1.44	12		27*35*1.7
SS-PV1820P		18	20	1.11	1.21	21.6		35*47*1.7
SS-PV1830P		18	30	1.7	2.08	21.6		35*62*1.7
SS-PV1840P		18	40	2.3	2.51	21.5		51*54*2.5
SS-PV1850P		18	50	2.84	3.12	21.6		52*67*2.5
SS-PV1860P		18	60	3.37	3.7	21.6		63*67*2.5
SS-PV18100P		18	100	5.5	6.1	22	1 m	100*67*3
SS-PV20200P		20	200	10	11	24	1 m	164*67*3.5



## Product information:

A DC TV is a type of television that operates on direct current (DC) power instead of alternating current (AC) power. This makes it ideal for use in environments with unstable or off-grid power sources.



## DC TVs

### Technical specifications

ItemNO.	SS-TV01/17	SS-TV01/19	SS-TV01/24	SS-TV01/32
Screen size(inch)	17"	19"	24"	32"
Inputvoltage(V)	10-16.8	10-16.8	10-16.8	10-16.8
Average power consumption	6-7	8-10	10-12	13-15
Resolution	720P	720P	720P	2K
HDMI port	×1	×1	×1	×1
VGA port	×1	×1	×1	×1
RFport	×1	×1	×1	×1
AVport	×1	×1	×1	×1
USB	×1	×1	×2	×2
Audioinputport	×1	×1	×1	×1
Audio output port	×1	×1	×1	×1
S2port	×1	×1	×1	×1
T2port	/	/	×1	×1



## Lamp

### Technical specification

Product code	SS-WL01/1	SS-WL01/2	SS-WL01/3
Power (W)	1	2	3
Bulb	LED	LED	LED
Cable length	10.2	10.2	10.2
Cable diameter (mm)	3.5	3.5	3.5



## Radio

### Technical specification

Product code	SS-R01
Frequency band	65.9 ~ 108MHZ
Function	Support TF card & U disk MP3 format music file
Recharging voltage	DC5V
Capacity	3.7V1800mAh Li-ion battery



## Portable lantern

### Technical specification

Product code	SS-PL01/1
Charging method	By battery or its solar cell
Brightness level	Half or full brightness
Weight(kg)	0.22



## Torch

### Technical specification

Product code	SS-PL01/3
Full charge cycles	500
Capacity	3.6 V1800mA 18650 lithium battery
Brightness level	Half or full brightness



## Charging cable

### Technical specification

Product code	SS-U01
Multiple pins	Type – C USB, Micro USB, Mini USB, DC2.0, DC3.5



## Table fan

### Technical specification

Product code	SS-F01
Windspeed level	1/2/3
Max wind speed(m/min)	1300-1500
Fan blades QTY & Cable length(m)	3/3
Fan head tilt angle(Up&down)	Adjustable
Fan head oscillation	Automatic



## Standing fan

### Technical specification

Product code	SS-F02
Windspeed level	1/2/3
Max wind speed(m/min)	1300-1500
Fan blades QTY/ Cable length(m)	3/3
Fan head tilt angle(Up & down)	Adjustable
Fan head oscillation	Automatic

# Y T E N 毅腾电器

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