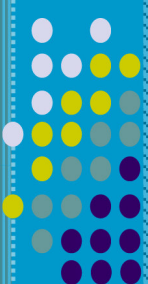


Solar Home Generation System



Introduction & Features

Solar Home Generation System Introduction

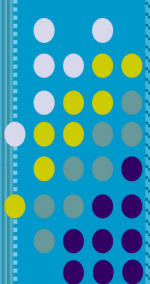
1. Designed and manufactured for people in region where is hard to supply electricity such as south-east Asian islands or African countries(without grid connection).
2. Portable type is enable to put product in the car, so easy to move. No carbon dioxide emission.

Solar Home Generation System Features

1. Inverter includes overload protection, LED indicator, buzzer alarm when overload on/off, low/over voltage protection.
2. All-in-one inverter and controller with built-in nominal analog inverter
3. Front LED includes battery charge/discharge display which indicates battery charge/remain condition.

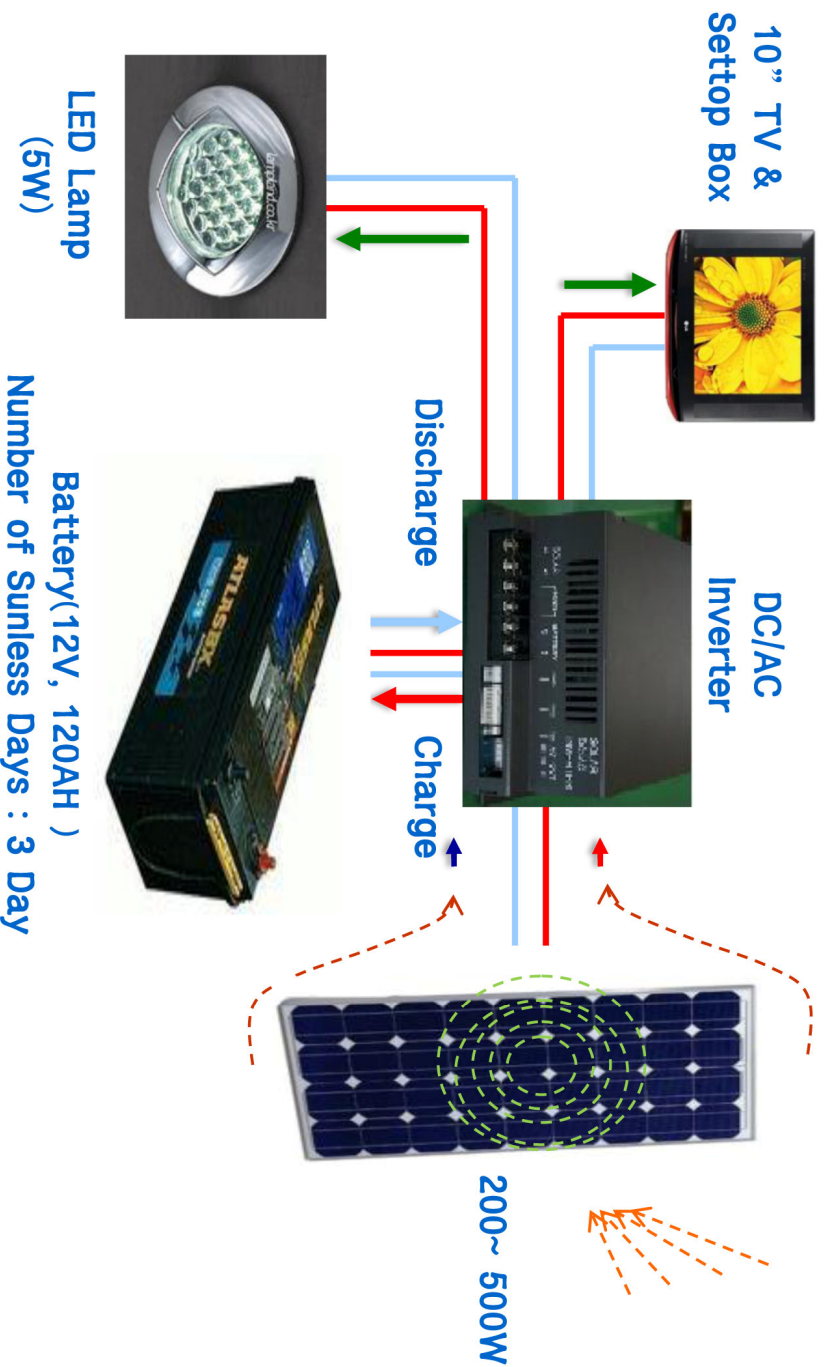


Solar Home Generation System

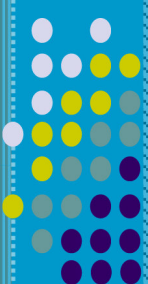


System Configuration Diagram

Solar Home Generation System Configuration Diagram



Solar Home Generation System



Product Specification

Capacity

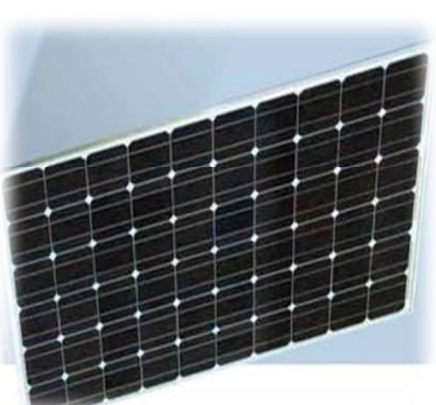
Model	PV Module Cap.	Inverter	Controller	Batteries
GM – 200w	200w	24V/500W	12V/20A	12V/120AH
GM – 300w	300w	24V/700W	12V/20A	12V/120AH X 2
GM – 400w	400w	24V/ 700W	24V/30A	24V/120AH X 2
GM – 500w	500w	24V/1000W	24V/30A	24V/120AH X 4

Applications : Use TV, Radio, Laptop, LED lamp, others according to capacity

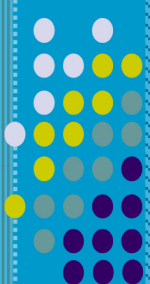
Recommend that Power Load should not take up more than 50% of whole capacity

PV Module Spec.

- PV module power : 200~500Wp
- Using power per day : 4H~7H
- Calculate the need power Efficiency
=0.75
- Using power per day
(200w x 4h = 800w) ~ (500w x 7h = 3500w)



Solar Home Generation System



Product Specification

DC/AC Inverter Spec.

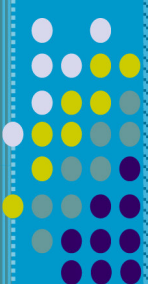


- DC/AC Inverter : 110V /220V
- Modified Sine Wave
- Charger Controller
 - Have Charge / Discharge Function

Inverter	
12Volt	
Output power max	500W~1000W
Continuous	24A /40A
Output V	110V ~220V
Load Reconnect	12.5V
Charge Termination	32V <
Load Disconnect	10.5V
Temp. Compensation	-30mV/°C
Self-consumption	9mA
Operating Temp.	-40 to 50°C
Input Reverse Polarity - FUSE	
DC Over/Under Voltage	
Output Short-circuit	
Output Over Current	

Inverter specification is subject to change for product capacity.

Solar Home Generation System

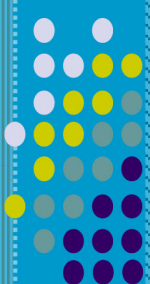


Maintenance – Free Sealed Battery

Battery Specification

Nominal Voltage	12 V	
Capacity(10HR, 25°C)	120 Ah	
Dimension	Length	409mm (16.1inch)
	Width	176mm (6.93inch)
	Height	225mm (8.86inch)
Total Height	225mm (8.86inch)	
Approx. Weight	37.5kg (82.7lbs)	
Internal resistance (Fully charged, 25°C)	Approx:4mΩ	
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self – discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature	25°C±3°C(77°F±5°F)	
Operating temperature range	-15°C ~ 50°C (5°F ~ 122°F)	
Float charging voltage(25°C)	13.50 to 13.80V	
Cyclic charging voltage(25°C)	14.50 to 14.90V	
Maximum charging current	36A	
Terminal material	Copper	
Maximum discharge current	960A(5 sec.)	

Solar Home Generation System



Application Case

Export to Mongolia, Micronesia, Congo(DRC), Russia and other countries

