

YLSYS1600 SERIES

Off-grid Solar Power System

Powered by **YINGLI**



ABOUT YINGLI GREEN ENERGY

Yingli Green Energy Holding Company Limited (NYSE: YGE) is one of the world's largest fully vertically integrated PV manufacturers. With over 4 GW of modules installed globally, we are a leading solar energy company built upon proven product reliability and sustainable performance. We are committed to offer reliable and sustainable PV product and provide affordable green energy for all.

We are the first renewable energy company and the first Chinese company to sponsor the FIFA World Cup™.

GENERAL INFORMATION

Off-grid Solar Power System converts solar energy to AC electric energy through solar module and inverter device, which can meet basic electricity demand for home lighting and appliances.

Meantime, the DC electric energy from the solar system can supply to the DC facilities, such as mobile phone, lap-top computer, etc.

Off-grid Solar Power System can be widely used in many different places, such as solar family power supply, road monitoring system, tunnel power supply system, communication base station, forest fire prevention, environmental monitoring, grassland ranch, fishermen farming, border post and any places where have no electricity or are short of electricity.

ADVANTAGE

- Green and sustainable
- Safe, quiet and stable
- No pollution
- Easy installation, convenient operation

RECOMMENDED LOAD

- Energy-saving lamp (9W), 4sets, 4hours/day
- TV & IRD (200W), 1set, 4hours/day
- DVD player (40W), 1set, 4hours/day
- Washer (300W), 1set, 1hour/day
- Refrigerator, 1set, 24hours/day
- Induction cooker, 1set, 1hour/day

CERTIFICATION

ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007, PV Cycle



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GENERAL INFORMATION

System model	YLSYS1600
Module type	YGE 140 series
Con-inverter	YLCI 3000-48
Battery type	12V/200Ah
Generation	~4.5kWh

Battery stand-by days: 2 days. Peak sun hours: 4.5 hours/day.

MODULE PARAMETERS YGE 140 SERIES (STC)

Module type			YL140P-17b	YL135P-17b	YL130P-17b
Power output	P_{max}	W	140	135	130
Power output tolerances	ΔP_{max}	%	+/- 5		
Voltage at P_{max}	V_{mpp}	V	18.0	17.6	17.6
Current at P_{max}	I_{mpp}	A	7.77	7.67	7.38
Open-circuit voltage	V_{oc}	V	22.5	22.3	22.1
Short-circuit current	I_{sc}	A	8.40	8.20	8.05
Dimensions		mm	1470×680		

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5, according to EN 60904-3.

CON-INVERTER PARAMETERS

Rated capacity	3000VA	
DC voltage	48V	
Battery	VRLA battery	
C o n t r o l l e r	Rated current	30A
	DC over-voltage protection point	59.2 ~60V (adjustable)
	Static current	≤1%
	Drop voltage	≤5%
	Protection function	reverse connection of battery / module, short circuit, over load, etc
I n v e r t e r	Output voltage	220V±3%
	Output frequency	50Hz±0.5%
	Output waveform	sine wave
	Output voltage waveform distortion	<5% (linear load)
	DC under-voltage protection point	43.2V (adjustable)
	Over load capacity	125% >1min; 150%>10s
Operating condition	height≤5000m; -10°C~+40°C; 95% relative humidity (no coagulation)	
Storage and transportation condition	-20°C~+70°C	
Noise	<60dB (within 1m)	
Protection degree	IP20	
Dimensions (L×W×H)	600mm×520mm×650mm	
Net weight	50kg (exclusive battery)	

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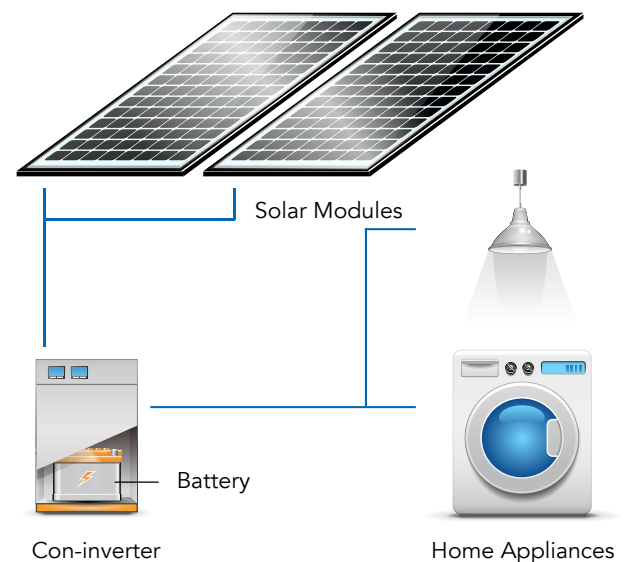
PACKAGE

Name	Dimensions (mm)	Weight (kg)	Contents	Quantity
Module package YLSYS1200-M	1540×780×800	128	Module	12
			Specification	1
Con-inverter package YLSYS1200-C	650×700×620	42	Con-inverter	1
			Manual	1
Battery package YLSYS1200-B	520×860×250	200	Battery	4
			Manual	1
Structure package YLSYS1200-S	1000×1000×1550	180	Bracket	1
			Cable	1
			Manual	1

Packaging specification refers to the actual product.

Note: The package can be designed according to customer's special requirement.

DIAGRAM:



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