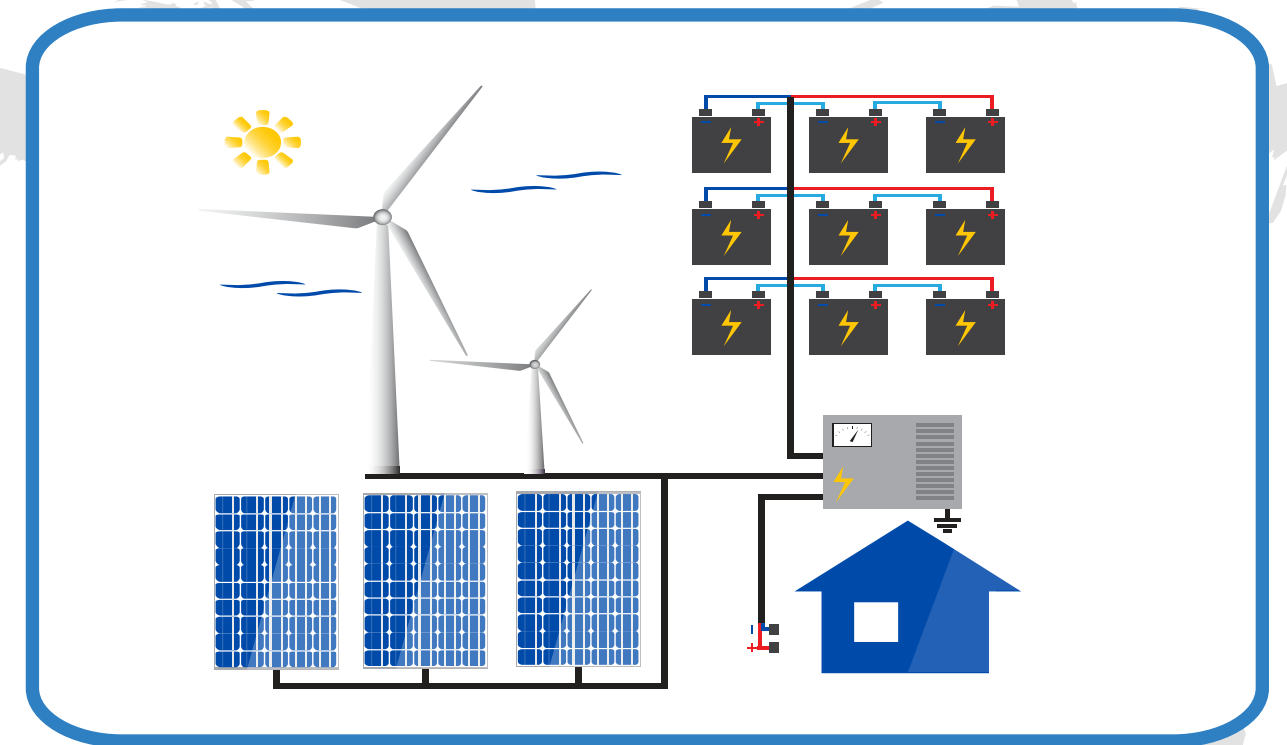




ZOOMLAND



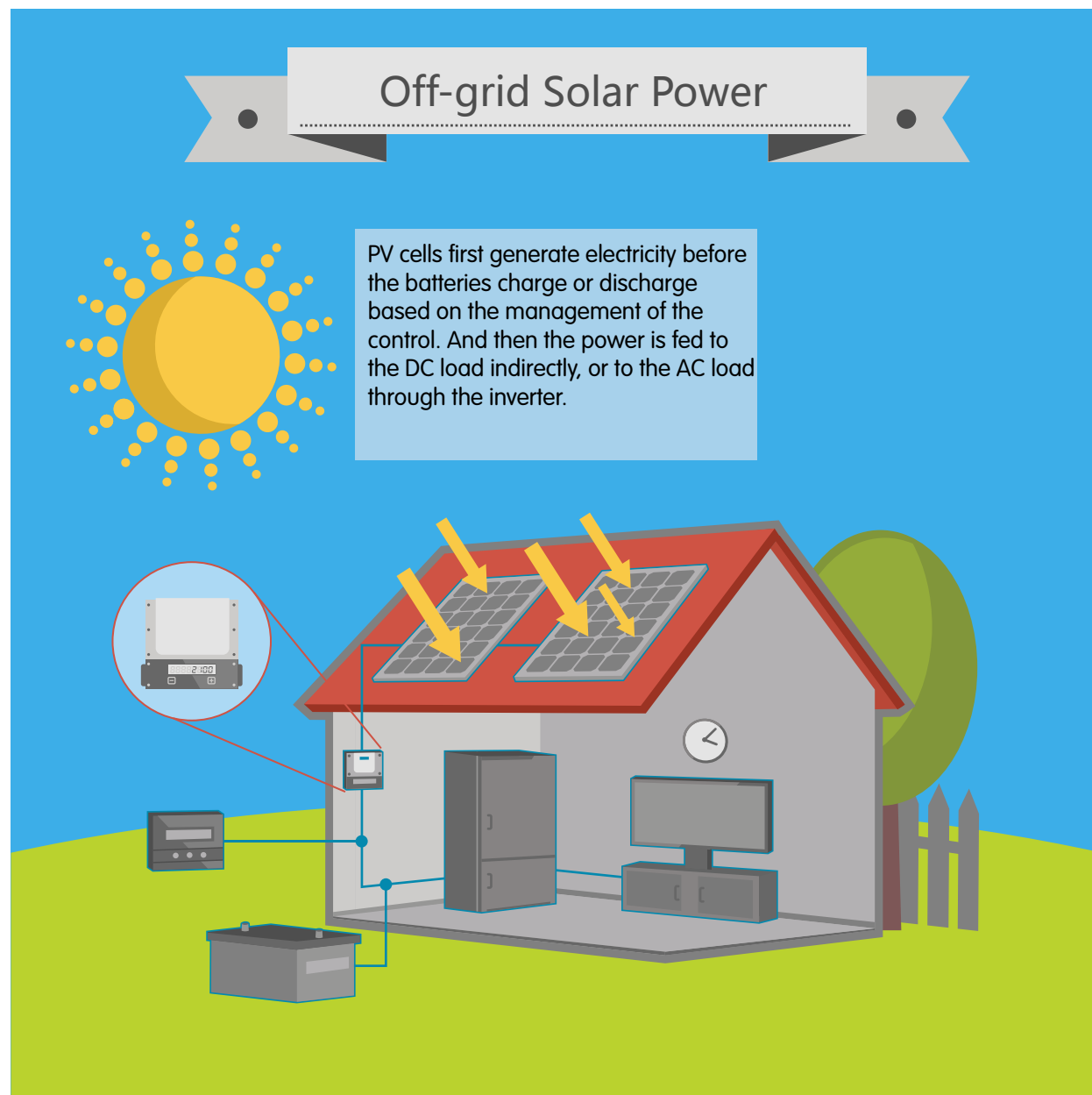
Save Our Planet!



www.zlsolartech.com

Off-Grid Solutions (Solar Power System)

2018



Normally we take granted that electricity can be obtained anywhere, but at present more than 2 billion people live without electricity in the world: most of them live in poor and remote areas, far away from power plants and public grid which makes their life inconvenient and lack of modern civil information.

ZOOMLAND commits to the research and development of off-grid PV equipments. Our products cover 300W~160kW, meet all sorts of off-grid power generation demand and applications. Known as the most professional manufacturer of off-grid inverter and off-grid system solution, we offer customers the complete power products.



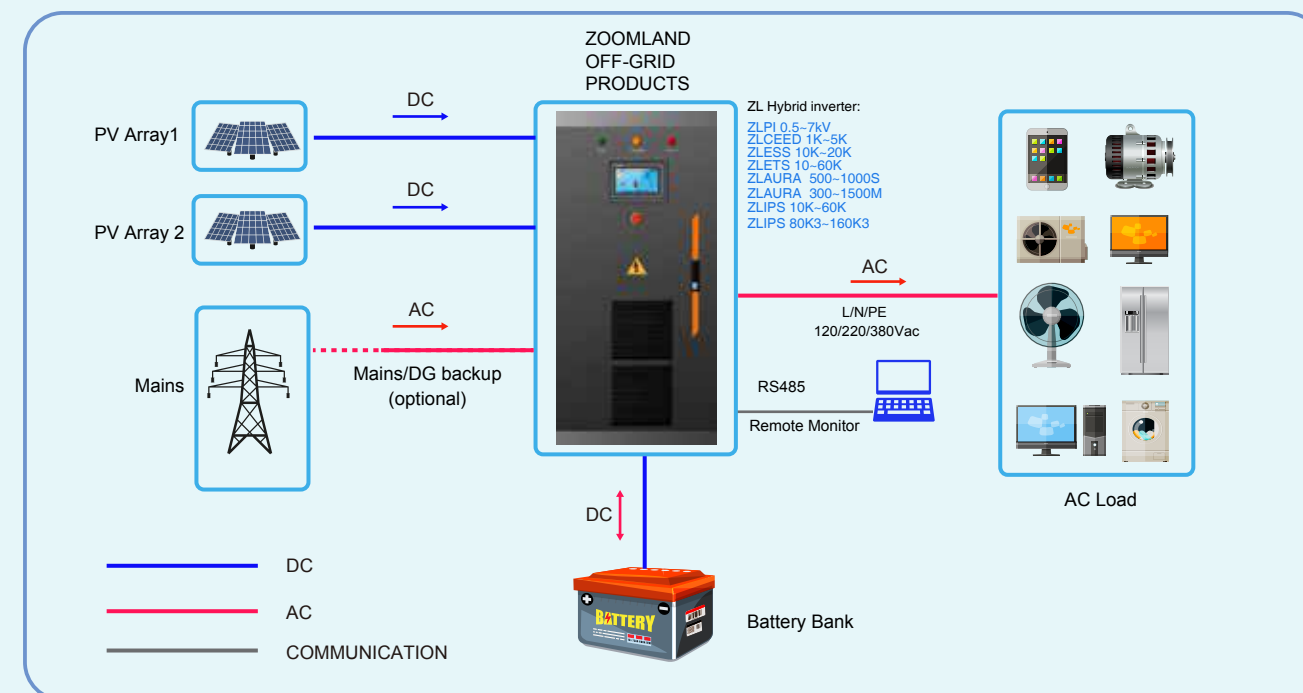
The Off-grid PV Power System can be widely used in remote areas, courtyard, boats, energy-shoritage area



generating electricity for farms, boats, office and home use.

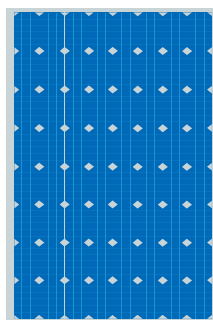
Off-grid solar power system is an independent renewable power supply system, widely applied in places without effective power such as remote mountain areas, pasturing areas, sea islands, communication base stations, filed operation areas and street lights, etc. The offgrid system consists of solar modules, solar controllers, battery bank, off-grid inverter, AC load etc. In case of effective sun light, PV array will convert the solar light into electricity to supply the load and the rest to charge battery bank, in case of insufficient power generation, the battery supply power through inverter to AC load. The control system intelligently manages the battery bank and meets the power requirements as well.

Products Network Architecture Diagram

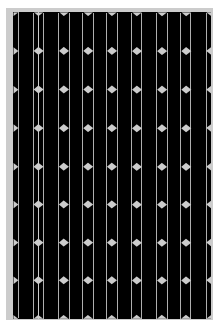




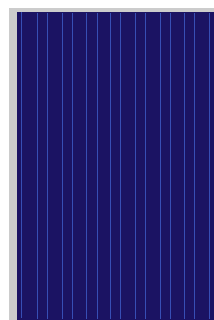
SOLAR PANELS & WIND GENERATOR



Polycrystalline
SOLAR PANEL



Monocrystalline
SOLAR PANEL



Thin-Film
SOLAR PANEL



Wind Generator
100w - 1kw

- High module conversion efficiency (up to 16.80%)
- Excellent anti-PID performance
- Electroluminescence (EL) tests guarantee fault-free modules
- 25 Years Warranty of 80% Power Output

Guaranteed Performance

10 Years Manufacturing Warranty
10 Years Warranty 90% Power Output
25 Years Warranty 80% Power Output

Qualifications and Certificates



INVERTERS

- Wide Output Power coverage from 300W to 160kW;
- Integrated design with MPPT controller; inverter and isolated technology
- Pure Sine wave inverter output; bypass input (optional)
- 120v/240v / 50/60HZ can be customized;
- Complete protection, safe and stable

ZLCEED 1K~5K



ZLAURA 300~1500M



ZLPI 0.5~7kW



ZLXCEED 500~1000S



ZLESS 10K~20K



ZLIPS 10K~60K



2 Years Manufacturing Warranty



BATTERIES

- the Germany advanced GEL technology;
- maintenance-free battery
- Easy installation
- 2v/ 100AH-3000AH; 12v/24AH-200AH ;
- Complete protection, safe and stable

- ✓ 300-1500W OFF-GRID SOLAR POWER SYSTEM
- ✓ 1KW-7KW OFF-GRID SOLAR POWER SYSTEM
- ✓ 10KW-160KW OFF-GRID SOLAR POWER SYSTEM

- ✓ 300-1500W OFF-GRID SOLAR POWER SYSTEM
- ✓ 1KW-7KW OFF-GRID SOLAR POWER SYSTEM
- ✓ 10KW-160KW OFF-GRID SOLAR POWER SYSTEM

Typical Electricial Appliance & Daily Working Hour:

-  2 Pcs, 12W LED lights X 8 Hours = 192 WH
-  1 Pcs, 50W (21”) TVs X 3 Hours = 150 WH
-  1 Pcs, 30W Fans X 3 Hours = 90 WH
-  1 Pcs, 65W Laptop X 3 Hours = 195WH
-  1 Pcs, 50W DVD Player X 3 Hours = 150 WH

TOTAL LOAD: 219W; DAILY POWER CONSUMPTION : 777WH / DAY

SYSTEM CONFIGURATION (300Wp)

COMPONENT				DESCRIPTION				QUANTITY			
1	Solar Module	150w Polycrystalline	2 Pcs	2	Controller	PWM 12/24v 20A	1 Pcs	3	Offgrid Inverter	ZLAURA 500M, 12Vdc	1 Pcs
4	Racks	Rootop/ Ground Mounting	1 Set	5	Batteries	12v 150AH Gel Batteries	1 Pcs				

* SYSTEM CONFIGURATION MAY VARY PER USER’S LOAD & LOCAL RADIATION

Typical Electricial Appliance & Daily Working Hour:

-  6 Pcs, 12W LED lights X 8 Hours = 576WH
-  2 Pcs, 50W (21”) TVs X 6 Hours = 600WH
-  2 Pcs, 30W Fans X 10 Hours = 600WH
-  1Pcs, 65W Laptop X 5 Hours = 325WH
-  1 Pcs, 550W Water Pump X 1 Hours = 550 KWH

TOTAL LOAD: 847W; DAILY POWER CONSUMPTION : 2.65WH / DAY

SYSTEM CONFIGURATION (1000Wp)

COMPONENT				DESCRIPTION				QUANTITY			
1	Solar Module	250w Polycrystalline	4 Pcs	2	Controller	MPPT 12/24Vdc, 30A	1 Pcs				

ZOOMLAND
OFF - GRID
POWER SYSTEM

- ✓ 300-1500W OFF-GRID SOLAR POWER SYSTEM
- ✓ 1KW-7KW OFF-GRID SOLAR POWER SYSTEM
- ✓ 10KW-160KW OFF-GRID SOLAR POWER SYSTEM

ZOOMLAND
OFF - GRID
POWER SYSTEM

- ✓ 300-1500W OFF-GRID SOLAR POWER SYSTEM
- ✓ 1KW-7KW OFF-GRID SOLAR POWER SYSTEM
- ✓ 10KW-160KW OFF-GRID SOLAR POWER SYSTEM

Typical Electricial Appliance & Daily Working Hour:

-  10 Pcs, 12W LED lights X 8 Hours = 0.96 KWH
-  1 Pcs, 750W Air-conditioner X 4 Hours = 3 KWH
-  1 Pcs, 250W Washing Machine X 2 Hours = 0.5 KWH
-  2 Pcs, 100W Computers X 8 Hours = 1.6 KWH
-  1 Pcs, 750W Water Pump X 2 Hours = 1.5 KWH

TOTAL LOAD: 2,070W; DAILY POWER CONSUMPTION : 7.56WH / DAY

SYSTEM CONFIGURATION (3000Wp)

COMPONENT				DESCRIPTION				QUANTITY			
1	Solar Module	260w Polycrystalline	12 Pcs								
2	PV Combiner Box	Number of Input String:4	1 Pcs								
3	Offgrid Inverter	ZLPI 6.0KVA, 96Vdc	1 Pcs								
4	Racks	Rootop/ Ground Mounting	1 Set								
5	Batteries	12v 200AH Gel Batteries	8 Pcs								

* SYSTEM CONFIGURATION MAY VARY PER USER'S LOAD & LOCAL RADIATION

Typical Electricial Appliance & Daily Working Hour:

-  10 Pcs, 12W LED lights X 8 Hours = 0.96 KWH
-  2 Pcs, 750W Air-conditioner X 4 Hours = 6 KWH
-  1 Pcs, 250W Washing Machine X 2 Hours = 0.5 KWH
-  2 Pcs, 100W Computers X 8 Hours = 1.6 KWH
-  1 Pcs, 2,200W Water Pump X 2 Hours = 4.4KWH

TOTAL LOAD: 4,270W; DAILY POWER CONSUMPTION : 13.46WH / DAY

SYSTEM CONFIGURATION (5000Wp)

COMPONENT				DESCRIPTION				QUANTITY		
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- ✓ 300-1500W OFF-GRID SOLAR POWER SYSTEM
- ✓ 1KW-7KW OFF-GRID SOLAR POWER SYSTEM
- ✓ 10KW-160KW OFF-GRID SOLAR POWER SYSTEM

Typical Electricial Appliance & Daily Working Hour:

-  20 Pcs, 12 W LED lights X 8 Hours = 1.92 KWH
-  2 Pcs, 1.1 KW Air-conditioner X 8 Hours = 17.6 KWH
-  1 Pcs, 100 W Refrigerator X 24 Hours = 2.4 KWH
-  1 Pcs, 250 W Washing Machine X 2 Hours = 0.5 KWH
-  1 Pcs, 2.2 KW Water Pump X 1 Hours = 2.2 KWH

TOTAL LOAD: 5.0 kW; DAILY POWER CONSUMPTION : 24.6 KWH / DAY

SYSTEM CONFIGURATION (10kWp)

COMPONENT DESCRIPTION QUANTITY			
1	Solar Module	260w Polycrystalline	40 Pcs
2	PV Combiner Box	Number of Input String:4	1 Pcs
3	Offgrid Inverter	ZLESS 15KVA, 216Vdc Single Phase	1 Pcs
4	Racks	Rootop/ Ground Mounting	1 Set
5	Batteries & Cabinet	12v 150AH Gel Batteries	36 Pcs

* SYSTEM CONFIGURATION MAY VARY PER USER'S LOAD & LOCAL RADIATION

- ✓ 300-1500W OFF-GRID SOLAR POWER SYSTEM
- ✓ 1KW-7KW OFF-GRID SOLAR POWER SYSTEM
- ✓ 10KW-160KW OFF-GRID SOLAR POWER SYSTEM

Typical Electricial Appliance & Daily Working Hour:

-  120 Pcs, 12 W LED lights X 24 Hours = 34.6KWH
-  10 Pcs, 2.85 KW Air-conditioner X 8 Hours = 228 KWH
-  2 Pcs, 7.5 KW Water Pump X 2 Hours = 30 KWH
-  30 Pcs, 100W Computers X 24 Hours = 7.2 KWH
-  1 Pcs, 10 KW Load X 8 Hours = 80 KWH

TOTAL LOAD: 57.9KW; DAILY POWER CONSUMPTION : 379.8KWH / DAY

SYSTEM CONFIGURATION (160kWp)

COMPONENT DESCRIPTION QUANTITY			
1	Solar Module	315w Polycrystalline	508 Pcs
2	PV Combiner Box	Number of Input String:16	3 Pcs
3	Offgrid Inverter	ZLIPS 160KVA, 384Vdc,380Vac,3PH	1 Pcs
4	Racks	Rootop/ Ground Mounting	1 Set
5	Batteries & Cabinet	2v 1500AH Gel Batteries	192Pcs

* SYSTEM CONFIGURATION MAY VARY PER USER'S LOAD & LOCAL RADIATION

Off-grid Project Reference

Our off-grid solar system spread out of the world, which supply stable, reliable and economic Power supply for our customers. Below are parts of typical off-grid applications.

Middle East 30KVA off-grid System,ETS30KVA



South Africa 7KVA off-grid System,ZLPI 7KVA



Nicaragua Integrated Solar System ZLAURA1KVA



Luyou off-grid System ZLPI 7.0KVA



Thailand 60KW off-grid System,ETS 60K



Philippine 5KW off-grid System,ZLPI-5.0KVA



Vietnam 50KW off-grid System,ZLETS-50KVA



Trinidad 30KW off-grid System,ZLETS-30KVA



Australia 5KW off grid system, ZLPI-5KVA



India 1KW off-grid System,ZLPI-1.5KVA



Sierra Leone, 20KW off-grid System,ZLESS-20KVA



Not in a range? No Problem, Please fill the questionnaire below and our sales expert will create your own customized Off-Gird Solar Power System and email to service@zlsolartech.com.



Country	City		Lat		Lon			
Total Power (W)	Freq (Hz)		Support Continuous Rainy Days (d)					
Load Name	Power Form (V)	Qty (pc)	Rated (W)	Hours in daytime (h)	Hours in night (h)	Total hours (h)	Consump tion (Wh)	Remark