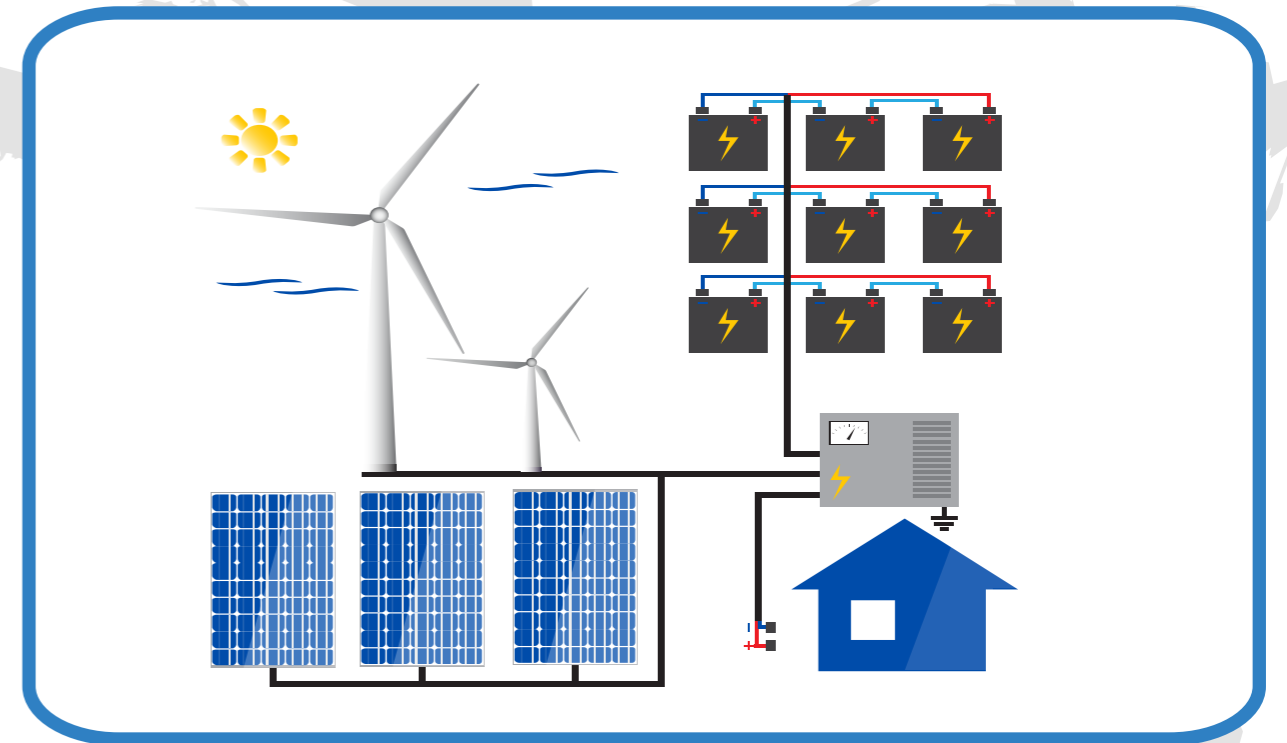




ZOOMLAND



Save Our Planet!



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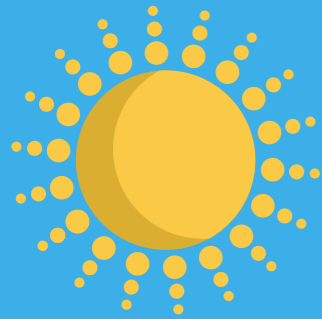
Off-Grid Solutions (Solar Power System)

2018

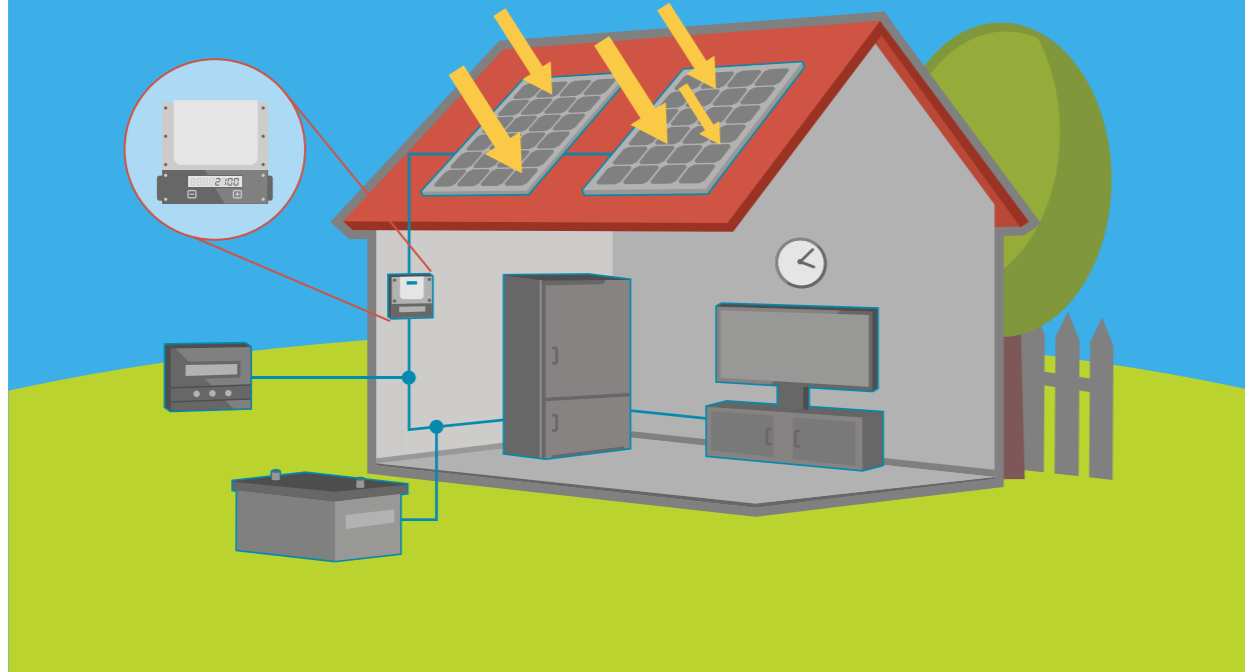




Off-grid Solar Power



PV cells first generate electricity before the batteries charge or discharge based on the management of the control. And then the power is fed to the DC load indirectly, or to the AC load through the inverter.



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.



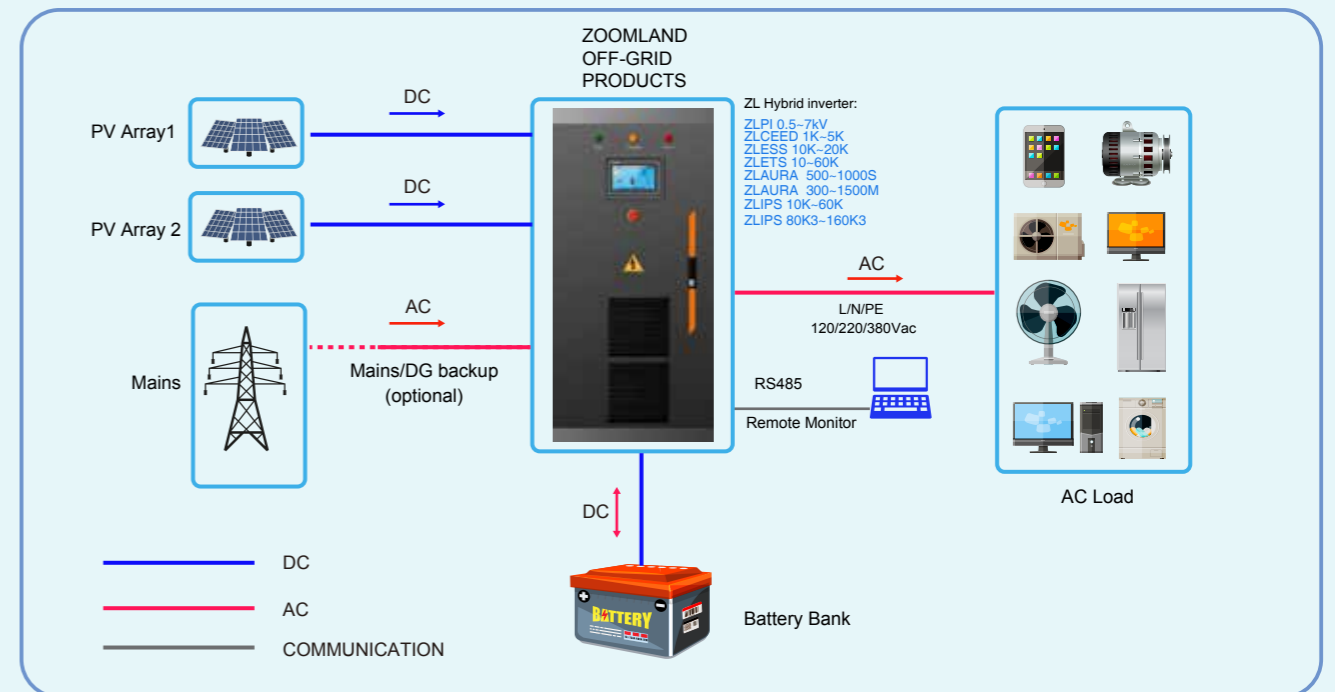
The Off-grid PV Power System can be widely used in remote areas, courtyard, boats, energy-shoratage area



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

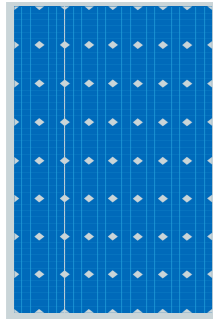
Off-grid solar power system is an independent renewable power supply system, widely applied in places without effective power such as remote mountain areas, pasturing areas, sea islands, communication base stations, filed operation areas and street lights, etc. The offgrid system consists of solar modules, 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

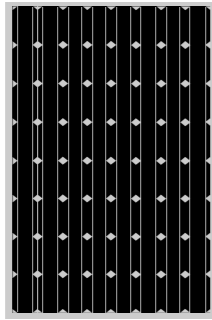




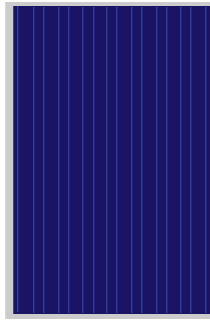
SOLAR PANELS & WIND GENERATOR



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

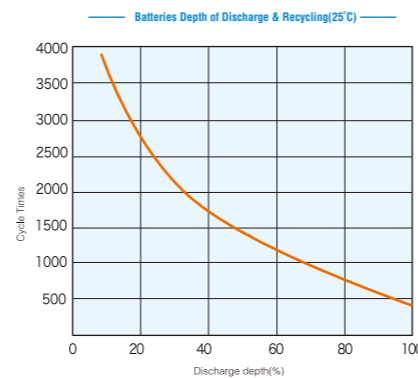
- Wide Output Power coverage from 300W to 160kW;
- Integrated design with MPPT controller; inverter and isolated technology
- Pure Sine wave inverter output; bypass input (optional)
- 120v/240v / 50/60HZ can be customized;
- Complete protection, safe and stable



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



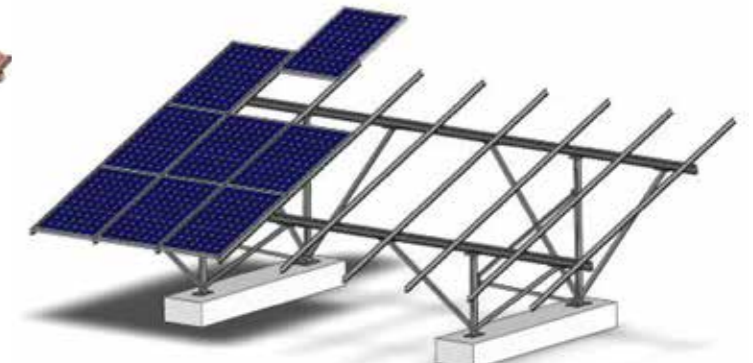
Guaranteed Performance

3 Years Manufacturing Warranty

Bracket



Tied-on Rooftop Bracket



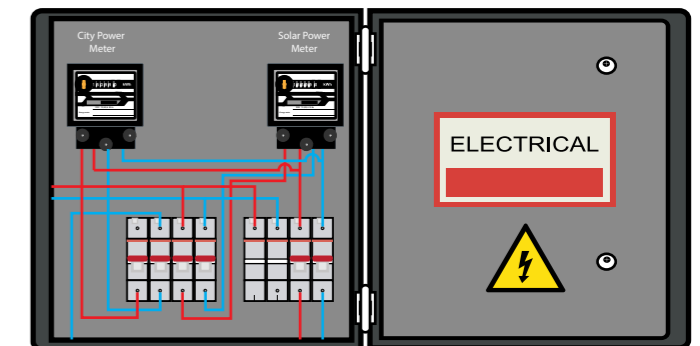
Ground & Flat Rooftop Bracket

- Hot galvanized steel / Aluminum Alloy material
- High-strength and good erosion-resistance
- Pre-assembly design, simple and quick installation
- 10 years of guarantee, 25 years of life span;

10 years of guarantee, 25 years life span;

Accessories

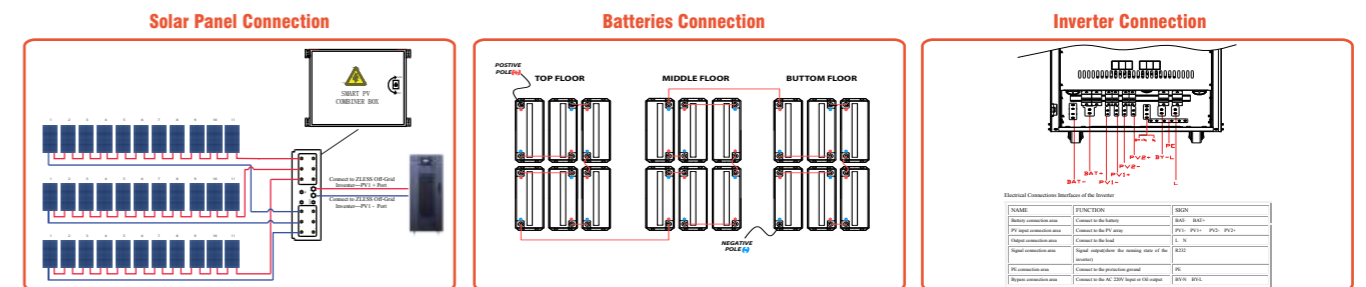
ZOOMLAND Solar power system include professional pre-assembled Distribution box, Combiner box, PV Cables, Connectors etc, which spare customer's headache to buy the right components, meanwhile, enjoy the solar power in a safe way.



Easy Installation



ZOOMLAND solar power system components were strictly selected and designed by sophisticated engineer teams and pre-installed & tested before ship to our customer's side.

By following the simple plugin process of cable connection, your solar power station can be easily installed under supervision of your local electrician engineer.



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

Typical Electrical 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

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

Typical Electrical 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
3	Offgrid Inverter	ZLXEED 2KVA HF inverter, 24Vdc	1 Pcs
4	Racks	Rootop/ Ground Mounting	1 Set
5	Batteries	12v 150AH Gel Batteries	4 Pcs

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

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 Electrical 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

3000 W SYSTEM

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	Roof/ Ground Mounting	1 Set
5	Batteries	12v 200AH Gel Batteries	8 Pcs

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

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 Electrical 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

5000 W SYSTEM

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

SYSTEM CONFIGURATION (5000Wp)






COMPONENT	DESCRIPTION	QUANTITY	
1	Solar Module	260w Polycrystalline	21 Pcs
2	PV Combiner Box	Number of Input String:4	1 Pcs
3	Offgrid Inverter	ZLPI 7.0KVA, 96Vdc	1 Pcs
4	Racks	Roof/ Ground Mounting	1 Set
5	Batteries	12v 200AH Gel Batteries	12 Pcs

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

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 Electrical 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

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 Electrical 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

10KW SYSTEM

160KW SYSTEM

