



宁波中焱光伏科技有限公司

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## Uninterrupted PV Power System

Uninterrupted PV Power System is an all-in-one machine which includes solar inverter, solar battery, charge controller, battery cabinet and solar modules. The system can be applied to areas without grid-power network, villas, remote villages, island, no power supply areas and backup power for general families. Pure sine wave AC output 110V/220V/230V, 50Hz/60Hz.

### Product image:



Front

- 1 DC Power
- 2 Battery Power Display
- 3 Working Condition
- 4 Real-time Charging Current
- 5 Real-time Load Power
- 6 AC Power



Back

- 7 AC Out
- 8 Cooling Fan
- 9 AC IN
- 10 Solar Cell IN
- 11 Battery IN



# Quotation for 5000W Uninterrupted (Off-grid) PV Power System

Configuration Details			
ISS 5000Z	Specification		
Solar Panels	2800w=200W poly x 14 pcs		
	L1482*W992*H45 (mm)/pc		
System Cabinet	Lead Acid Battery	Total: 300AH/48V	12V/100Ah*12 pcs
			L330*W171*H220MM*12pcs
	Inverter	Pure sine wave 5000W inverter	
	Controller	48V/30A*3pcs	
	Brackets	2800w tile roof brackets	
	Bypass switch	220V/230V... 63A	
	Assembled system box	Clearance Dimensions: L690*W710*H1115mm	
Gross weight /volume	1.System Cabinet: 0.95 m <sup>3</sup> / 464kg (with battery) 2.Panels: 1.5 m <sup>3</sup> /308kg 3. Tile roof brackets: 1m <sup>3</sup> /90kg		Total :3.45 m <sup>3</sup> / 862kg
Accessories	1.Panel package pallet                      2.System cabinet package wooden box 3.80m panel cable                            4.Bypass switch 5.MC4 and T-junction connectors		
Quantity	FOB Ningbo Price		
1 sets	Fob Ningbo : <b>5825 USD (Includes tile roof racks)</b>		
<b>Note:</b>			
1. The validity of prices: 30 days.			
2. Lead time: 25 days.			
3. <b>Payment terms for one set:</b> 100% T/T for 1 set sample order.			
<b>Payment terms for more than 5 set:</b> 30% T/T in advance, the rest shall be balanced against copy of B/L.			

## Product Features:

- >> All-in-one high integrated off-grid solar system
- >> Pure sine wave output
- >> Battery power indicate
- >> Digital indication for PV charging & load power
- >> Automatic switch between PV generation and utility power
- >> PV power generation always preferred
- >> High-efficiency, easy-installation and reliable performance
- >> Economic and environment-friendly

## Technical Data:

Model	ISS1500Z	ISS3000Z	ISS5000Z
AC Output Power	1500W	3000W	5000W
Output Waveform	Pure Sine Wave		
Precision of Output Voltage	220V±3% or 110V±3%		
Precision of Output Frequency	50Hz±3Hz or 60Hz±3Hz		
Power factor	0.99		
Overload ability	120%,30 seconds		
Over Voltage Protection	>29V	>58V	>58V
Low Voltage Protection	<19V	<40V	<40V
Peak power efficiency	>94%	>94%	>94%
Switching time between PV power and AC electricity	<20ms		
Battery Discharge Time (Rated Output Power)	1.5 hours		
Solar Panel Charging Time	3.5 hours effective sunlight		
Certificate	CE		

## Operational Environment:

Operating Temperature Range	-10 ~ 55°C
Relative Humidity	0 ~ 90%
Operating Altitude	0 ~ 4000m

## Standard Configuration details:

No.	What's included	ISS1500Z	ISS3000Z	ISS5000Z
1	Mainframe box	1PC	1PC	1PC
2	Cell box	1PC	2PCS	3PCS
3	Wheel	4PCS (Dia. 3 inch---Mounting H110mm)		
4	Inverter	1500W	3000W	5000W
5	Controller	24V/45A	48V/60A	48V/60A
6	Photovoltaic Panel	1000W	2000W	2800W
		26.2V , 7.63A	26.2V , 7.63A	26.2V , 7.63A
		250W x 4	250W x 8	200W x 14
7	Lead acid battery	200Ah/24V	200Ah/48V	300Ah/48V
		12V 100Ah x 4	12V 100Ah x 8	12V 100Ah x 12

## Mechanical Data:

Mainframe box (mm/kg):	L550*W545*H165 / 19.5		
Cell box(mm/kg):	L550*W545*H280 / 15.5		
Assembled system box(mm/kg):	L550*W545*H555 / 35	L550*W545*H835 / 50	L550*W545*H1115 / 67
Battery(mm/kg):	L331*W173*H220(mm) Total H225mm / 29.5kg for one piece		

## Products guarantee as below:

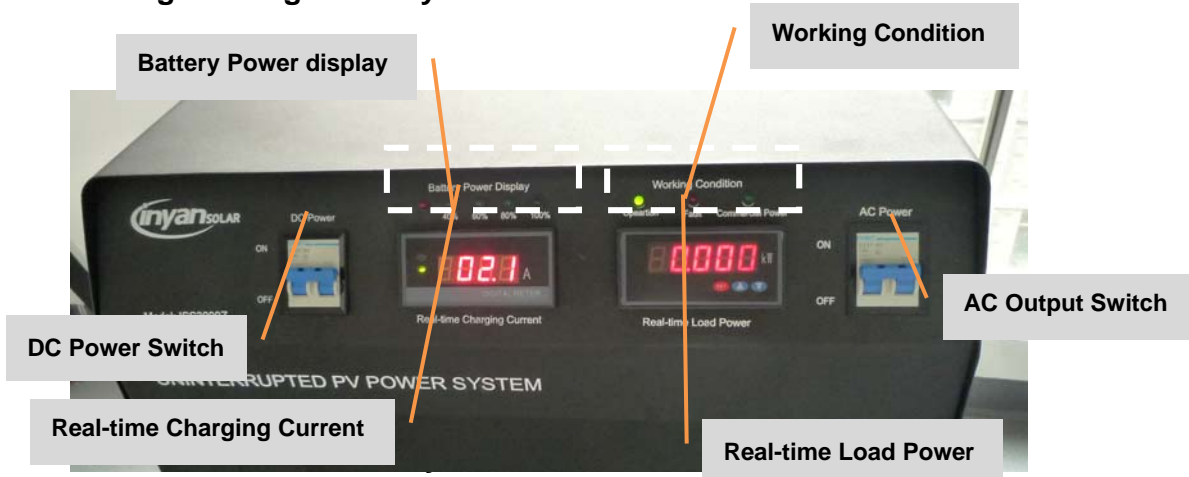
Solar panels: not less than 90% in 10 years and 80% in 25 years

Inverters and charge controllers: 2 years

Lead crystal batteries: 1 years (about 750 cycles, lifetime 5~6 years)

Bracket: 5 years

## Connecting drawing of the system



## Operating procedure of the system

### 1、Preparation before starting



#### I. ① DC Power Switch

Make sure that this switch is in the state of "off" before finish connecting the system.

#### II. ⑥ AC Output Power Switch

Make sure that this switch is in the state of "off" before finish connecting the system.



#### III. ⑩ Solar Cable in Terminal

Connect the cables strictly according to positive and negative marks on the machine and confirm

that the input voltage is in the scope allowed by the product. One solar cable in is on the left of the positive and negative terminal, and the other is on the right.

#### IV. ⑦ AC Output Sockets

Before finish connecting the system, please do not connect the AC electric appliances to the these sockets. The maximum output power of single-way is 1500W. The total load should not exceed the rated output power.

#### System operating steps

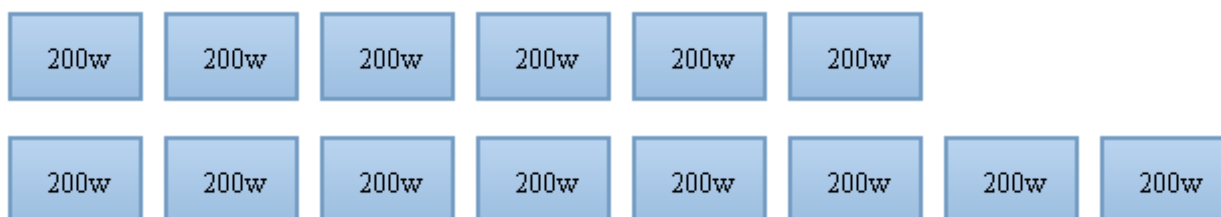
I. First of all, make sure that the system is connected properly according to the preparation before starting.

II. After confirm the connection without any error, turn on the DC power switch, and then turn on the AC output switch. Observe the real-time charging current is displayed or not and the battery power indicators are on or not. The battery is charging when all battery power indicators are flashing in turn . It is full charged when all indicators are on and not flashing. Please check the solar cables are correct connected or not if there's no above appear.

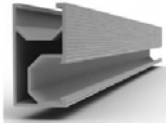
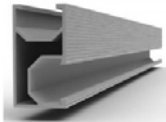
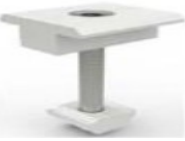



III. Check whether the total power of AC electric appliances exceed the rated power of system or not. The system won't work if it exceeds. Turn on and operate the AC electric appliances after confirm without any error. When the battery and solar panel can not meet the power consumption requirement, the system will turn off output automatically and the fault light is on. In this case, please turn off AC electric appliances and the AC output switch. Please reuse after the battery is full charged or for some time.

IV. Please turn off the DC power switch and AC power switch while long time disuse.

#### Solar panels array:



Tile roof roof Rack:

The information of tile roof system				
The components list of tile roof system				
Components	Description	Material	Measurement	Quantity
Rails		AL6063-T5	2715mm	6pcs
Rails		AL6063-T5	3050mm	4pcs
Middle clamps		AL6063-T5 (Bolt is SUS304)	40*17mm (Bolt: M8*60)	24sets
End clamps		AL6063-T5 (Bolt is SUS304)	40*40mm (Bolt: M8*25)	8sets
L-feet		AL6063-T5	40*150mm (Bolt: M8*25)	20pcs
Connect parts		AL6063-T5 (Bolt is SUS304)	180mm (Bolt: M8*20)	6sets
The quotation of tile roof system				
Module size:		1482*992*45mm(200w)		
Arrangement of Modules:		1*8,1*6		
Quantity of module:		14pcs		
Maximum wind speed resistance:		150km/h		
Maximum snow load:		1.4kn/m2		
Life time:		25 years		
Terms of Package:		Carton		
G.W/Volume		90KG/1CBM		

Bracket pictures

