

PRODUCT BROCHURE

**OFF-GRID SOLAR POWER
SYSTEM**



3000



5000

Parameters

3000

PRODUCT CONFIGURATION

Item	Parameters	Quantity
System model	3000	-
PV module	17V/145W	12
Con-inverter	Battery	12V/250AH
	Inverter	48V/3000W
	Controller	48V/50A
	Output terminals	AC220V×1, DC48V×1, DC12V×1
	Dimension(mm)	680×630×997
	Weight(kg)	343.5 (include battery)
Brackets	-	6

TECHNICAL PARAMETERS

PV module

Module type	E145
Power output Pmax(W)	145
Power output tolerance ΔP_{max} (%)	±5
Voltage at P _{max} Vmpp(V)	18.2
Current at P _{max} Impp(A)	7.99
Dimension(mm)	1470×680×25
Weight(kg)	10.8

Battery

Type	lead-acid battery
Capacity	12V/250AH

HOW TO USE

Recommended load	Load	Power (W)	Quantity (set)	Run time (h)	Electricity consumption (wh)
	LED light	10	6	10	600
	TV	50	2	5	500
	Satellite TV receiver	25	1	5	125
	Air condition	1500	1	3	4500
	Washing machine	380	1	1	380
	Desktop	200	1	3	600
Total		2165	-	-	6705

Controller

Rated current(A)	50
DC over-voltage protection point(V)	62
Protection function	Reverse connection of battery/module, short circuit, overload, overcharge, overdischarge, etc.

Inverter

Rated power	3000W
Output voltage	220V±5%
Output frequency	50Hz±5%
Output waveform	Sine wave
Output voltage waveform distortion	<3%
DC under-voltage protection point	40V±2%

Operating condition	H≤5000m; -10°C~+40°C; 90%relative humidity(no coagulation)
Storage and transportation condition	-20°C~+70°C
Noise	<50DB (within 1m)
Protection degree	IP20
Solar charging time	10 hours

5000

PRODUCT CONFIGURATION

Item	Parameters	Quantity
System model	5000	-
PV module	17V/145W	16
Con-inverter	Battery	12V/250AH
	Inverter	48V/5000W
	Controller	48V/50A
	Output terminals	AC220V×1, DC48V×1, DC12V×1
	Dimension(mm)	680×630×997
	Weight(kg)	343.5 (include battery)
Brackets	-	8

TECHNICAL PARAMETERS

PV module

Module type	E145
Power output Pmax(W)	145
Power output tolerance ΔP_{max} (%)	±5
Voltage at P _{max} Vmpp(V)	18.2
Current at P _{max} Impp(A)	7.99
Dimension(mm)	1470×680×25
Weight(kg)	10.8

Battery

Type	lead-acid battery
Capacity	12V/250AH

HOW TO USE

Recommended load	Load	Power (W)	Quantity (set)	Run time (h)	Electricity consumption (wh)
	LED light	10	6	10	600
	TV	50	2	5	500
	Satellite TV receiver	25	1	5	125
	Air condition	1500	1	3	4500
	Washing machine	380	1	1	380
	Desktop	200	1	3	600
Total		2165	-	-	6705

Controller

Rated current(A)	50
DC over-voltage protection point(V)	62
Protection function	Reverse connection of battery/module, short circuit, overload, overcharge, overdischarge, etc.

Inverter

Rated power	5000W
Output voltage	220V±5%
Output frequency	50Hz±5%
Output waveform	Sine wave
Output voltage waveform distortion	<3%
DC under-voltage protection point	40V±2%

Operating condition	H≤5000m; -10°C~+40°C; 90%relative humidity(no coagulation)
Storage and transportation condition	-20°C~+70°C
Noise	<50DB (within 1m)
Protection degree	IP20
Solar charging time	7hours

PROJECT IMPLEMENTATION SCHEME

This solar system can be used where there is no grid available, independently or combined with generator providing for 24 hour power production.

Remark: the solar system capacity can be increased, i.e. multiplied two times, three times etc. So the more the capacity is, the more power is produced.

Now we are calculating the freight costs to the destination port and will send you the offer soon.

Also we shall send you information on the on grid system option soon.