

SOLAR POWER SYSTEM - NPS - 1000 W

Technical data:		
Item No.	NPS-1000W	
Capacity	1000W	
System voltage	48VDC	
Best output power everyday	3500WH	
Inverter	Output wave	Pure Pure sine wave
	Output voltage	AC120V/220V
	Output frequency	50HZ/60HZ
	Output current	4.55A(220V)
	Precision of output voltage	±3%
	Precision of output frequency	±0.1%
	False output wave of AC	<3%
	Overload ability	120%,30 seconds
	Invert efficiency	>97%
	Solar panel	Pmax
Vmp		72V
Imp		5.55A
Charger	Charger voltage & current	1000W48V

Load reference:					
NPS-1000W solar home system					
loads name	specification	load's watt	qty	working hrs	Daily consumption
lighting	energy saving light	11W	4	6	264Wh
Computer	LCD displays	100W	1	6	600Wh
printer	jet	100W	1	0.5	50Wh
fax machine	jet	100W	1	1	100Wh
Fan	ceiling fan	80W	2	6	960Wh
satellite TV receiver /VCD		25W	1	6	150Wh
Color TV	29inch	100W	2	6	1200Wh
water pump		100W	1	1	100Wh
total		829W			3424Wh



Main Components & Package Data

Parts	Spec	Qty	Size (L*W*H mm)	Weight (Kg)
Solar Panel	12V100W	4	1195 x 541 x 200	40
Controller & Inverter (Power Box)	12V1000W	1	400 x 400 X 650	60
Batteries	12V65AH	4	351 x 167 x 203	110
Accessories	Cable			

Features:

- ◆ High tech
- ◆ High efficiency
- ◆ Good quality
- ◆ High reliable
- ◆ Super long life span

Application:

Nomads, families, island, none or short of electricity area, Satellite Ground Stations, weather stations, forest fire stations, etc.

Warranties:

Solar panel: 25 years
Power box: 5 years

Solar Panel-100W



Features:

High-transmissivity, low-iron tempered glass, 18% module efficiency

Warranties:

25 years product warranty

10-years warranty on 90%

25-years warranty on 80%

Certification:

CE, ISO, TUV, IEC, UL

Spec	100W
Power (W)	100
Dimension of cell (mm)	125*125
Dimension of panel (mm)	1195*541*35
Arrangement way (pcs)	4*9
Weight (KG)	8
System voltage(V)	24
Pmax (W)	100
Vmp (V)	17.5
Imp (A)	5.71
Voc (V)	21.3
Isc (A)	6.23

Inverter & Controller 48V1000W



Inverter

DC input	Rated capacity (W)	1000
	Input rated voltage (VDC)	48
	Input voltage recommended range(VDC)	44-52
AC output	Rated voltage (VAC)	220/110
	Rated frequency (Hz)	50/60
	Over load ability	120% 1minute
	voltage steady precision (VAC)	±3%
	Total harmonic distortion (THD)	≤5%
	Dynamic response(0~100%)	0.05
	Inversion efficiency (80% load)	0.85
Environment	Insulation intension (VAC)	1500, 1 minute
	Noise (dB、1M)	≤40
	Operating temperature (℃)	-20~+60
	Storage temperature (℃)	-40~+70
	Altitude (m)	≤5000

Controller

Rated power (W)		1000
Rated voltage(VDC)		48
Recommended controller charge MAX. current (A)		20.8
Recommended solar MAX. open voltage (V)		96
Over-charge(V)	protection	57.6
	recover	52.8
Voltage descent(V)	Between solar cell and battery	≤0.4
	Between battery and load	≤0.03

Features:

- ◆ High tech
- ◆ High efficiency
- ◆ Good quality
- ◆ High reliable
- ◆ Super long life span

Warranties:

2 years

Certification:

CE(EMC, LVD) ISO, TUV, IEC