

SOLAR POWER SYSTEM - NPS - 100 W

Technical data:		
Item No.	NPS-100W	
Capacity	100W	
System voltage	12VDC	
Best output power everyday	300WH	
Inverter	Output wave	sine wave
	Output voltage	AC120V/220V
	Output frequency	50HZ/60HZ
	Output current	0.46A(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	20W*2pcs
	Vmp	17.5V
	Imp	2.28A
Charger	Charger voltage & current	100W/12V

Load reference:					
NPS-100W solar home system					
loads name	specification	load's watt	qty	working hrs	Daily consumption
charger	phone and mp4	1W	2	8	16WH
lighting	energy saving light	11W	2	6	132Wh
total		22W			148Wh



Main Components & Package Data

Parts	Spec	Qty	Size (L*W*H mm)	Weight (Kg)
Solar Panel	12V20W	2	656 x 296 x 50	5.2
Controller & Inverter (Power Box)	12V100W	1	400 x 240 X 290	7.3
Batteries	12V18AH	1	167 x 126 x 175	8.5
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-20W



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	20W
Power (W)	20
Dimension of cell (mm)	62.5*62.5
Dimension of panel (mm)	656*296*25
Arrangement way (pcs)	4*9
Weight (KG)	2.2
System voltage(V)	12
Pmax (W)	20
Vmp (V)	17.5
Imp (A)	1.16
Voc (V)	21.3
Isc (A)	1.3

Hybrid of Inverter & Controller 12V100W



Features:

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

Warranties:

2 years

Certification:

CE(EMC, LVD) ISO, TUV, IEC

Rated power (W)		100
Rated voltage(VDC)		12
Recommended controller charge MAX. current (A)		1.7
Recommended solar MAX. open voltage (V)		24
Over-charge(V)	protection	14.4
	recover	13.2
Voltage descent(V)	Between solar cell and battery	≤0.4
	Between battery and load	≤0.03