

SOLAR POWER SYSTEM - NPS - 300 W

Technical data:			Load reference:					
Item No.		NPS-300W	NPS-300W solar home system					
Capacity		300W	loads name	specification	load's watt	qty	working hrs	Daily consumption
System voltage		12VDC	Lighting	energy saving light	11W	4	6	264Wh
Best output power everyday		1200WH	radio		3W	1	6	18Wh
Inverter	Output wave	sine wave	Color TV	21inch	70W	1	6	420Wh
	Output voltage	AC120V/220V	fan	small fan	20W	1	5	100Wh
	Output frequency	50HZ/60HZ	total		137W			802Wh
	Output current	1.82A(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	80W*2pcs						
	Vmp	17.5V						
	Imp	9.14A						
Charger	Charger voltage & current	300W12V UPS8A						



Main Components & Package Data

Parts	Spec	Qty	Size (L*W*H mm)	Weight (Kg)
Solar Panel	12V80W	2	810 x 541 x 80	20
Controller & Inverter (Power Box)	12V300W	1	620 x 440 X 390	25
Batteries	12V65AH	1	351 x 167 x 203	26.5
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-80W



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	80W
Power (W)	80
Dimension of cell (mm)	125*125
Dimension of panel (mm)	810*541*35
Arrangement way (pcs)	4*9
Weight (KG)	6.5
System voltage(V)	12
Pmax (W)	80
Vmp (V)	17.5
Imp (A)	4.57
Voc (V)	21.3
Isc (A)	4.98

Hybrid of Inverter & Controller 12V300W



Inverter

DC input	Rated capacity (W)	300
	Input rated voltage (VDC)	12
	Input voltage recommended range(VDC)	10.8-17.5
AC output	Rated voltage (VAC)	220/110
	Rated frequency (Hz)	50/60
	Over load ability	120% 1 minute
	voltage steady precision (VAC)	±3%
	Total hamonic 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 (°C)	-20~+60
	Storage temperature (°C)	-40~+70
	Altitude (m)	≤5000

Controller

Rated power (W)		300
Rated voltage(VDC)		12
Recommended controller charge MAX. current (A)		5.71
Recommended solar MAX. open voltage (V)		25
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

Features:

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

Warranties:

2 years

Certification:

CE(EMC, LVD) ISO, TUV,IEC