



SOLAR POWER SYSTEM

SORO based on long experience in the field of network energy and embodied their spirit of innovation, SORO pushout SPS series communication and household solar power system solution and lead communication industry into era of saving energy, environmental protection and green.

SPS Serive Solar Power System



► Product snapshot:

Model: 1-6KVA

Nominal voltage: 100/110/120/127/220/230/240VAC

Nominal frequency: 50/60Hz

Efficient • Energy-saving • Environmental-protection • Innovation :

The design of solar power system adopt the concept of a new generation of solar photovoltaic, simple structure, easy to operate, stable performance, and provide users with a reliable green power. The default energy of the machine is solar energy, when there is no solar energy, it can charge battery through the mains rectifier, and can set the charging period also, to avoid the peak period, and cost savings. Double conversion technology, enable the system to provide continuous and stable energy supply.

Personalized Design:

Product Design Concept: easy placement and space-saving design, front and rear with a handle, this product also has self-locking wheels for mobility around the home.

Unique Dual Charging Mode:

Solar Charging Mode

Installation of solar charger inside of machine, with intelligent battery charging control function, which can control input and withdrawal of photovoltaic panels to ensure that the battery charging voltage and current. The solar panel has the protection function current anti-irrigation and over-current, over-voltage and over-temperature.

Main Charging Mode

Installation of a smart charger inside of machine, which can control battery intelligently through mains, and also can set the charging period, to avoid the peak period, and cost savings.

High Reliability:

Use microprocessor controls, generating a modulated wave of the high bandwidth (SPWM) directly to control the inverter, and simplify the control circuit of the machine. Avoid the shortcomings of the traditional analog control inherent hardware parameters temperature drift, to ensure the reliability of the system.

Super - cold - start function:

UPS system cold start in the absence of AC power input with the battery pack can be started directly UPS.

Intelligent Unmanned Function:

When the case of mains power failure, machine switches to the battery mode to supply power. When the battery voltage is low, it will shut down automatically. During mains failure, the machine detects the mains voltage and frequency at any time. When utility power is not in the normal range, the machine only to start the charger to charge the battery, until the mains supply back to normal, the machine will supply power to the load automatically.

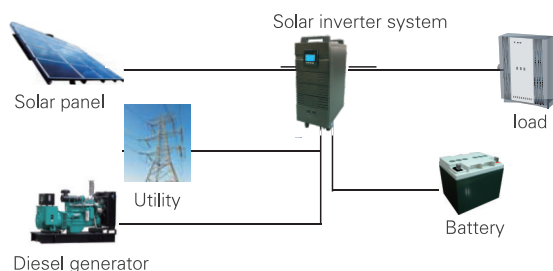
Active power factor correction (PFC) technology allows the input power factor approaching to 0.98, dramatically reducing the immunity on utility grid

The efficiency of the machines is as high as 87%, the battery efficiency is nearly 20 percent higher than comparable UPS, this characteristic that makes the machine supply power for longer time at the same battery configuration,

Remote Monitoring control function: SNMP CARD, DRY CONTACT

Full Protection:

- Prevent the solar panels to the positive and negative reverse
- Prevent the load from the positive and negative reverse
- Prevent the battery positive and negative reverse
- Short-circuit loop when the input of the battery plates
- Load output short-circuit loop
- Overcharge protection
- Night reverse current protection
- High-voltage and low-voltage protection
- Over-temperature and over-load protection
- Transient over- voltage protection
- Deep discharge protection
- Lightning protection
- If no battery or load when operation, the controller will test the open circuit voltage



solar battery+diesel generator+utility+solar controller+battery

UPS Power Solutions Expert

Solar Power UPS Series Technical Specifications

MODEL Power(KVA)	SPS 1-6k					
	1KVA	2KVA	3KVA	4KVA	5KVA	6KVA
Capacity(W)	1000	2000	3000	4000	5000	6000
Norminal voltage	100/110/120/127/220/230/240 (Optional)					
Norminal frequency	50/60±0.05HZ					
Input						
Voltage Range	60-138VAC (110VAC) /120-300AC(220VAC)					
Frequency Range	50Hz: (46-54Hz) ; 60Hz: (56Hz-64Hz)					
Power Factor	>0.98					
Output						
Voltage Precision	100/110/120/127/220/230/240X(1±2%)VAC					
Frequency Precision	50/60Hz ±0.05Hz					
Power Factor	1					
Harmonic Distortion	Linear load<3% Non-linear<6%					
Overload Capacity	LODE<125% for 10min					
	125%<LODE<150% for 10s					
Current Crest Ratio	3:1					
Transfer time	< 10ms(AC-Bypass)					
Battery	12/24/36/48VDC	12/24/48VDC	12/24/48VDC	24/48VDC	24/48VDC	24/48VDC
Recharge current	35/20/10	65/35/20	75/45/30	65/35	70/40	75/50
Panel Display	LCD/LED					
communication	RS232					
Temperature	0-40℃					
relative humidity	0-95%(Non-condensing)					
Solar Controller	5-50A(optional)					
Solar Panel	18V/10A(optional)					

STANDARD: Conform to GB/IEC regulation : EMC:GB7260.2/IEC62040-2 GB/17626.2 ~ 5/IEC61000-4-2 ~ 5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.