

## PS2000 Series Low Frequency Solar Inverter

### Product introduction

- Rated power 600va to 1500va
- Pure sine wave output
- Built-in PWM solar charge controller
- Built-in AVR function
- AC charger and UPS function
- Supporting USB communication
- Inside batteries available

### Field of application

- Off-grid solar photovoltaic system: applicable to areas without mains or with abundant solar energy.
- Solar hybrid photovoltaic system, which processes automatic recognition, intelligent switchover function: applicable to areas where electricity bills are expensive or environmental protection area since this system can transfer solar energy into power efficiently and save mains, like, household solar/wind power system, street lamp solar/wind power system etc.

### Detailed Description

- Easy to install, users just need to connect solar panels and batteries to finish installation
- Intelligent CPU controlled, modular composition
- LED or LCD display, specifications and status of charging and operation are displayed in a direct way, which is convenient to operate
- Multifunctional integrated machine, customers do not need to buy extra controller, charger, AVR etc.
- Room has been reserved for standard configuration of battery(100AH) inside the machine, and it can also connect to external battery pack to prolong backup time. (according to residential sunshine and wind energy source, customers can require a matching number of battery packs)
- Applicable to all kinds of loads, like, motors, air conditioners, electric drills, fluorescent lamps, gas lamps etc.
- Apply low frequency pure sine wave circuit design, high stability, low failure rate with a long operational life span (more than 5 years), and easy to maintain
- Protections of low voltage, over voltage, over-temperature, short circuit, overload etc
- Possesses DC power system, which can provide environmental power to LEDs, DC fans, radios, mobile phones and other power consumption equipment

### Specification

MODEL		PS20-600	PS20-800	PS20-1000	PS20-1500
Rated power		600VA/360W	800VA/480W	1000VA/600W	1500VA/1000W
Storage battery: lead-acid cell or gel battery		PV charging and mains charging			
Specifications of charging	Charging mode	12V(optional:24V)			
	Voltage	30A(Max) (depends on the power of solar panels)			
	Current	12V system(optional: 24V system)			
	PV maximum voltage	25V			
	Hybrid charging	PV charging current: when I>15A , AC charging current is off PV charging current: when 3<I≤15A, AC charging current is 5A PV charging current: when I≤3A, AC charging current is 10A			
DC output system	Charging port/USB	5V/2A(Total) / 2 units			
	Output port of DC	12V/1.5A / 3 units			
AC Mode	Input voltage	145~275VAC			
	Input frequency	(48~54Hz) Same as AC			
	Output voltage	200~240VAC			
	Short Circuit	Breaker			
Inverter Mode	Output voltage	220VAC±5%			
	Output frequency	50±1% Hz(Auto detection)			
	Output P.F	≥0.6			
	Output wave form	Pure Sine Wave			
	Transfer time	Typical 2-6ms, 10ms max			
	Overload capability	110% Shut down within 60sec 120% Shut down within 5sec			
Short Circuit	≥20ms System shut down automatically				
Priority principle of mains and inversion		intelligent and automatic recognition			
	Protection	Protections of output overload, output short circuit, input over voltage, input under voltage and over-temperature			
Specifications of the overall unit	Dimension(mm)	455*250*400			
	Net weight(Kg)	11	12	14	16
	Gross weight(Kg)	12.5	13.5	16	18.5
	Display mode	LCD+LED			
	Display information	LCD: working and protection status of inverter, charging status of storage battery LED: indications of working status and PV charging			
Environment	Environment	indoor, or outdoor with waterproof measures			
	Environment of performance:	Humidity 20%~90%, non condensing			
	Noise Level	≤40dB(1m)			

\* Product specifications are subject to change without further notice.