Prostar

Wall Mounted Solar Inverter(PWM)

> PSW0.5K-PSW6K

Overview

PSW series wall mounted solar inverter with three CPU controller,Line interactive UPS design concept, all digital control of the real pure sine wave output; built-in digital solar charge controller, convenient and simple; use the toroidal transformer with superior impact resistance capacity,to meet the requirement of different equipment; Adjustable AC charging voltage and charging current, free choice of working mode, to meet different types of the user ' s requirements.

Technical Features

- High frequency switching technology
- Multiple protection technology
- Green power technology
- Battery management technology
- PWM control technology
- Network monitoring technology
- CPU1 + N control technology

Working modes

Regular Mode : When there is electricity power, the AC charging function is always maintained. If the system is equipped with a solar charge controller, the PV is always charged, and the solar energy is charged simultaneously with the electricity power;

Solar Energy Priority Mode : Solar energy charging is priority When the sun is there, and the AC charging function is turned off. Start up the AC charging function When there is not enough sunlight.

Energy Storage Priority Mode : When there is solar energy and electricity power are provided, electricity input is off, solar charging and inverter output . When there is few sunlight,charged by electricity and stabilized voltage output;If the solar energy and electricity power are concurrent interruption, inverter output.

Solar Energy Priority, Energy saving mode : Turn off the AC charging function when sunlight is sufficient, and turn on the AC charging function when sunlight is few.If solar energy and electricity power are concurrent interruption,Inverter output.

Technical Specifications

Model		PSW0.5K	PSW1K	PSW1.5K	PSW2K	PSW3K	PSW4K	PSW5K	PSW6K
AC Input	Voltage Range	100/110/120/127/220/230VAC(+25%,-36%)			100/110/120/127/220/230VAC(±25%)				
	Frequency Range	50/60 Hz±2.5Hz							
PV Input	Rated Voltage	18V/36VDC		36VDC	36V/72VDC			72VDC	
	Charging Current	Standard 20A, can be increased(optional)			Standard 60A, can be increased(optional)				
Output	Rated Power	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W
	Instantaneous Power	1500W	3000W	4500W	6000W	9000W	12000W	15000W	18000W
	Wave Form	Pure Sine Wave							
	Battery Efficiency	81%		83%				85%	
	AC Efficiency	93%							
	Output Voltage	100/110/120/127/220/230VAC（AC mode ±10%, Battery Mode ±5%）							
	Output Frequency	50Hz/60Hz ± 0.5Hz（AC Mode ± 2.5Hz）							
	Transfer time	4ms/8ms Optional							
	USB Output	DC 5V/1A× 1+5V/2A× 1（Optional）							
Battery	Voltage	12V/24VDC		24VDC	24V/48VDC			48VDC	
	Charging Current	1--20A Adjustable			2--40A Adjustable				
LCD	Method	LCD+LED							
	Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV status and specifcation, PV Cumulative power generation							
Protection	Battery Reversal	Optional							
	Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down							
	Overload	If Overload 105%, Inverter will alarm.If Overload 130%, Inverter will shut down in 10s. Once the inverter is off, It must be turned on manually							
	High AC Voltage	Turn off AC, Turn to Inverter mode automatically							
	Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically							
	Temperature Over	Inverter will alarm and turn off output but it will recover to normal state after cooling down							
Environment	Humidity	15～93%（No condensation）							
	Temperature	-10℃～50℃							
	Altitude	≤3000m							
Dimension: D × W × H(mm)		450 x 280 x 135mm			640 x 365 x 190mm				
Dimension:D × W × H(mm)		555 x 400 x 188mm			740 x 487 x 240mm				
Weight	N.W.(KGS/PC)	11.0	12.9	14.6	24.2	29.0	32.3	37.3	42.0
	G.W.(KGS/PC)	13.0	15.0	16.0	27.8	32.5	35.8	40.9	45.6

* Note: The descriptions, illustrations and specifications give in the pamphiet are subjest to alteration without notice.