



Off Grid Tower Solar Inverter (MPPT)

> PST0.3K-Pro-PST6K-Pro

Overview

PST series tower 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; Low frequency design 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



MPPT 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		PST0.3K-Pro	PST0.5K-Pro	PST1K-Pro	PST1.5K-Pro	PST2K-Pro	PST3K-Pro	PST4K-Pro	PST5K-Pro	PST6K-Pro
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	12V/24Vdc*1.5			24Vdc*1.5	24V/48Vdc*1.5			48Vdc*1.5	
	Max Input Voltage	150Vdc								
	Charging Current	10A/20A/30A(optional)				40A/50A/60A(optional)				
Output	Rated Power	00W	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W
	Instantaneous Power	900W	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)								
Connector	Input/Output	Input power cable, 2pcs output sockets				terminals + 1pc output socket			Input & Output terminals	
	Battery	Terminals								
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 specification, 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 will shut down automatically,Once the AC recover, Inverter will 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								
Communication		RS232,USB,RS485,SNMP(Optional)								
Dimension: D × W × H(mm)		381 x 142 x 210mm				472x 190 x 330mm			535x 280 x 575mm	
Dimension:D × W × H(mm)		490 x 485 x 335mm(2pcs/ctn)				588 x 310 x 452mm			660 x 405 x 750mm	
Weight	N.W.(KGS/PC)	8.2	11.2	13.8	17.9	293	34.3	40	49.1	54
	G.W.(KGS/PC)	9.1	12.2	14.8	18.9	31.2	36.3	42	57.7	64.2

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