



Off Grid Tower Solar Inverter (PWM) > PB-PST0.3K - 6K



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



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 | | PB-PST0.3K | PB-PST0.6K | PB-PST1K | PB-PST1.5K | PB-PST2K | PB-PST3K | PB-PST4K | PB-PST5K | PB-PST6K |
|--------------------------|----------------------|--|------------|----------|-------------------|--|----------|----------|--------------------------|----------|
| 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/36V _{DC} | | | 36V _{DC} | 36V/72V _{DC} | | | 72V _{DC} | |
| | Charging Current | Standard 20A, can be increased(optional) | | | | Standard 60A, can be increased(optional) | | | | |
| Output | Rated Power | 300W | 600W | 1000W | 1500W | 2000W | 3000W | 4000W | 5000W | 6000W |
| | Instantaneous Power | 900W | 1800W | 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/24V _{DC} | | | 24V _{DC} | 24V/48V _{DC} | | | 48V _{DC} | |
| | 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) | 7.2 | 10.2 | 12.8 | 16.9 | 28.3 | 33.3 | 39 | 48.1 | 53 |
| | G.W.(KGS/PC) | 8.1 | 11.2 | 13.8 | 17.9 | 30.2 | 35.3 | 41 | 56.7 | 63.2 |

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