

Shenzhen Fangchao Technology Co., LTD

Zhongshan City Fangchao new energy Co., LTD

Nengyu Power (Zhongshan) Co., LTD

产品技术规格书

Product specifications

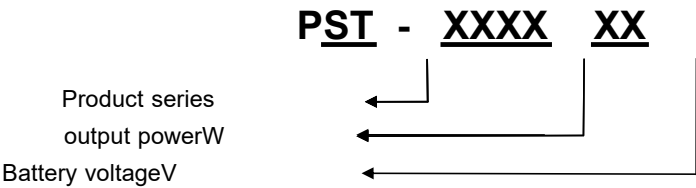
|            |               |
|------------|---------------|
| model :    | PST-2000W-12V |
|            | PST-2500W-24V |
|            | PST-2500W-48V |
| versions : | V2.0          |
| produce :  | Li Tao        |
| verifier : | She Qiangang  |

Customer confirms signature



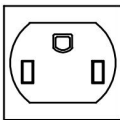
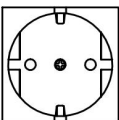
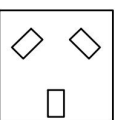
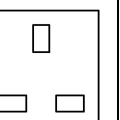
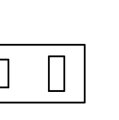
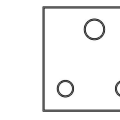
- characteristic :**
- Pure sine wave output
  - LCD display:  
"Battery % ratio, battery voltage, AC voltage, AC power, temperature display
  - Intelligent fan control
  - Protection type: battery low voltage warning, low voltage protection, high voltage protection.
  - Internal overtemperature protection, output overload protection, AC output short-circuit protection.
  - Applications: Home appliances, power tools, office and portable equipment, vehicles and yachts.

■Demonstration of the type

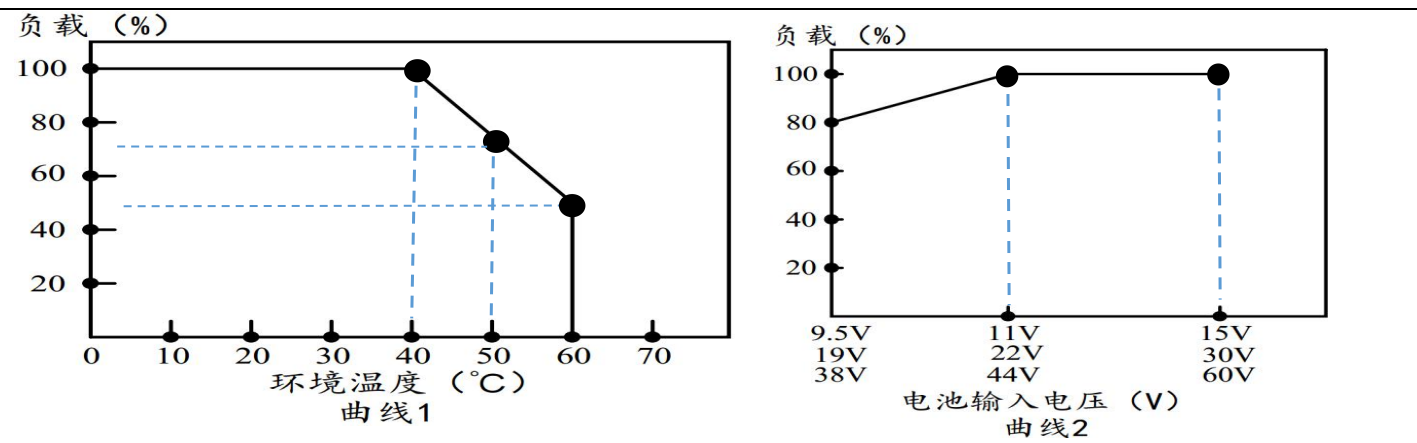


■Electrical specification

| model  |                       | PST-2000W-12V □220V              | PST-2500W-24V □220V | PST-2500W-48V □220V |
|--------|-----------------------|----------------------------------|---------------------|---------------------|
| output | Rated power (Wt)      | Rated power2000W                 | Rated power2500W    | Rated power2500W    |
|        | Peak Power (Wt)       | Peak power4000W                  | Peak power5000W     | Peak power5000W     |
|        | Output voltage (AC)   | AC220V 230V 240V (Default: 230V) |                     |                     |
|        | Output frequency (Hz) | 50Hz/60Hz±1Hz ( Default : 50Hz ) |                     |                     |
|        | output waveform       | pure sine wave                   |                     |                     |
|        | panel display         | LCD-liquid-crystal display       |                     |                     |

| Pure sine wave DC-AC inverter      |  |   |   | FCHAO 方超  |   |   |   |
|------------------------------------|--|---|---|---|---|---|---|
| input                              | Battery voltage (V)  | 12V   | 24V   | 48V   |   |   |   |
|                                    | Voltage range (V)  | DC10-15V  | DC20-30V  | DC40-60V  |   |   |   |
|                                    | Direct current (I)   | 200A  | 125A  | 75A   |   |   |   |
|                                    | No-load loss (W)   | ≤8.8W   |   |   |   |   |   |
|                                    | work efficiency  | 88%~92%   |   |   |   |   |   |
|                                    | type of battery  | Lead-acid battery or lithium battery  |   |   |   |   |   |
| Battery input protection           | Built-in fuse  | 40A*6   | 40A*4   | 40A*3   |   |   |   |
|                                    | Low-voltage battery shutdown   | 10V±4%  | 20V±4%  | 40V±4%  |   |   |   |
|                                    | The battery is connected to reverse protection   | By blowing the internal fuse  |   |   |   |   |   |
| exportation Protection             | Overtemperature protection   | When the temperature is higher than 85 ° C, AC output is turned off, and the alarm sounds 5/5S is stopped (continuous mode).<br>The system automatically recovers when the temperature is lower than 75 ° C |   |   |   |   |   |
|                                    | overload protection  | Load > 110% alarm last 15 seconds ,and it will be turned off AC output (reset switch to recovery)<br>Load > 150%, It will be turned off AC output within 2s (reset switch to recovery)                      |   |   |   |   |   |
|                                    | AC high voltage protection   | Output voltage > 255V, it immediately will be turned off AC output (reset switch to recovery)   |   |   |   |   |   |
|                                    | Output short-circuit protection  | It will be turned off in10s (reset switch to recovery)  |   |   |   |   |   |
| environment                        | operating temperature  | -25° ~ +80°   |   |   |   |   |   |
|                                    | work environment   | -25° ~ +45°   |   |   |   |   |   |
|                                    | operating humidity   | 30% to 90% RH, non-condensing   |   |   |   |   |   |
|                                    | storage temperature  | -25℃ ~ +70℃ (dry)   |   |   |   |   |   |
|                                    | vibration resistance   | 10 ~ 500HZ 2G 10 minutes/cycle, X, Y, Z axis 60 minutes each  |   |   |   |   |   |
|                                    | type of cooling  | air-cooled  |   |   |   |   |   |
| Safe electromagnetic compatibility | standard for safety  | CE  |   |   |   |   |   |
|                                    | withstand voltage  | Bat-PG:500VAC AC-FG:1.5KVAC   |   |   |   |   |   |
|                                    | insulation resistance  | Bat-PG,AC -FG:100M Ohms/500VDC/25℃/70%RH  |   |   |   |   |   |
| PACK                               | product size   | 380mm×233mm×96mm  |   |   |   |   |   |
|                                    | product netweight  | 3.4kg   |   |   |   |   |   |
|                                    | Product inner box size   | 430mm×290mm×173mm   |   |   |   |   |   |
|                                    | carton size  | 445mm×310mm×387mm   |   |   |   |   |   |
|                                    | packing quantity   | 2 sets/box  |   |   |   |   |   |
|                                    | package weight   | 9.85kg  |   |   |   |   |   |
| descr                              | 1、efficiency test: (12.8V/25.6V/51.2V) DC input voltage, 60% power measurement                           |   |   |   |   |   |   |
|                                    | 2、If not specified: All parameters are measured at ambient temperatures of 25 ° C                        |   |   |   |   |   |   |
|                                    | 3、Reference curve of output load derating capacity 1 (according to ambient temperature)                  |   |   |   |   |   |   |
|                                    | 4、Output load derating capability Refer to curve 2 (Relationship between battery voltage and load power) |   |   |   |   |   |   |
| ■Ac output socket (optional)       |  |   |   |   |   |   |   |
| Socket type                        |  |    |  |  |  |  |  |
| nationality                        |  | US  | EU  | AU  | UK  | JS  | SANS  |

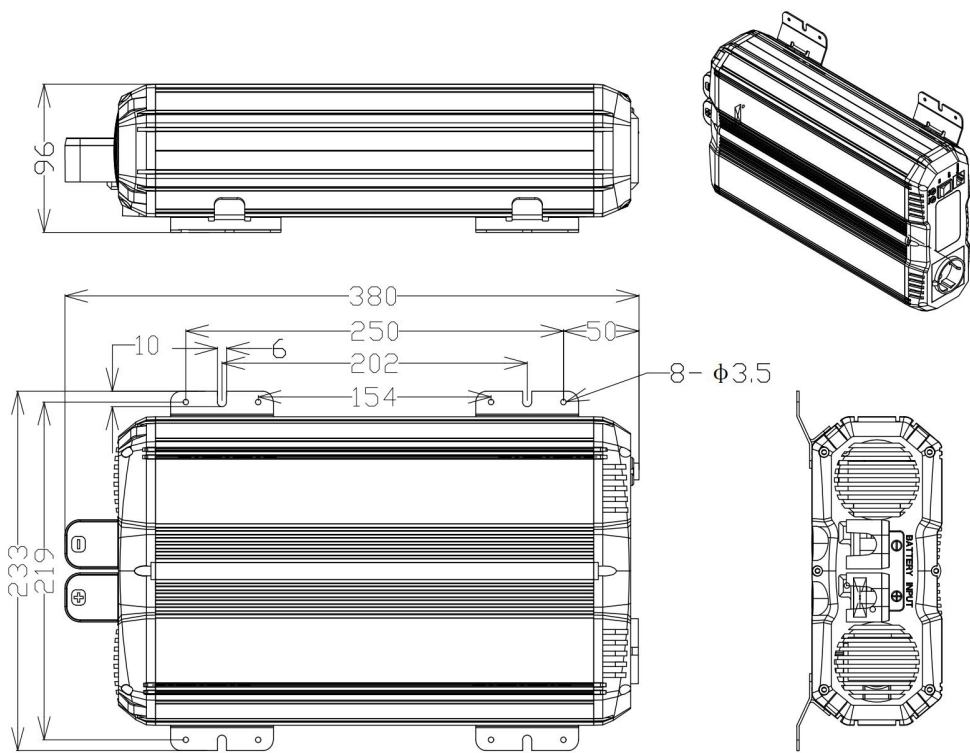
Derating curve



Curve 1< Relationship between ambient temperature and load power > : Ambient temperature :-25°C+40°C can work 100%. > 40°C, please refer to curve 1 diagram

Curve 2< Relationship between battery voltage and load power > (such as a 12V battery) The output power between 11V and 15V is 100%. If the output < 11V, see the diagram in Curve 2

Product structure diagram



**warning :**  
This series of products are off-grid inverters. It is prohibited to connect other AC power to the inverter, and the AC socket is prohibited to fill any other external source of AC mains.

**statement :**  
The company reserves the right to change the product, we will update product without notification !