

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-1500W-12V
	PST-2000W-24V
	PST-2000W-48V
versions :	V2.0
produce :	Li Tao
verifier :	She Qiangang

Customer confirms signature



RM-02外置LCD表头  
(需单独购买)




**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

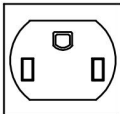
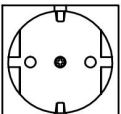
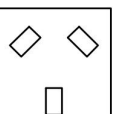
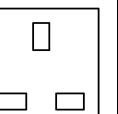
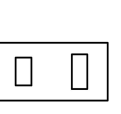
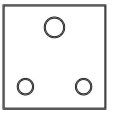
**PST - XXXX XX**

Product series  
output powerW  
Battery voltageV

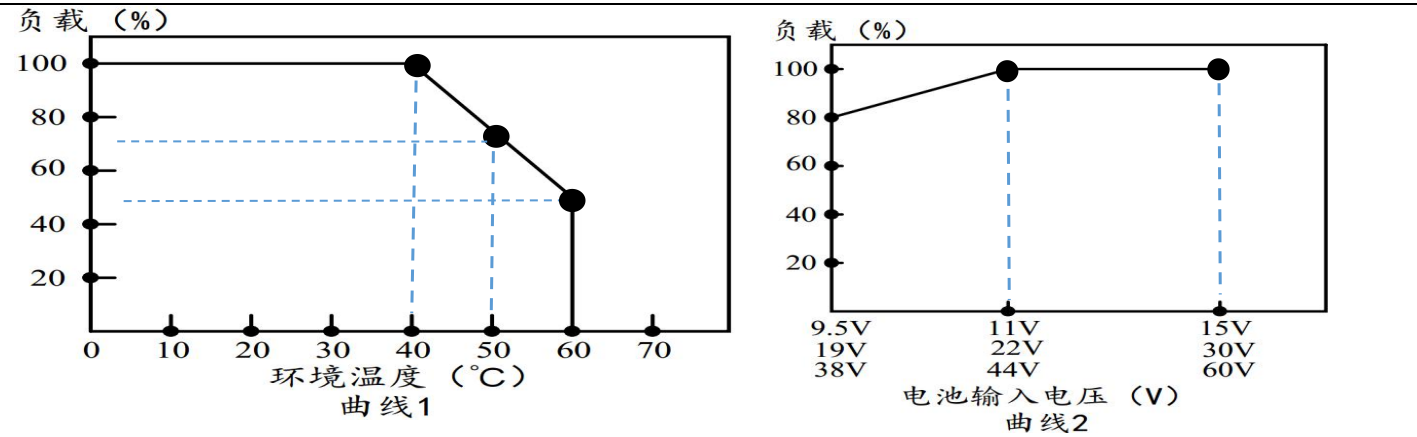


■Electrical specification

model		PST-1500W-12V □220V	PST-2000W-24V □220V	PST-2000W-48V □220V
output	Rated power (Wt)	Rated power1500W	Rated power2000W	Rated power2000W
	Peak Power (Wt)	Peak power3000W	Peak power4000W	Peak power4000W
	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)	150A	100A	50A			
	No-load loss (W)	≤7W					
	work efficiency	88%~92%					
	type of battery	Lead-acid battery or lithium battery					
Battery input protection	Built-in fuse	40A*5	40A*3	40A*2			
	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). 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)					
		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	340mm×233mm×96mm					
	product netweight	2.92kg					
	Product inner box size	430mm×290mm×173mm					
	carton size	445mm×310mm×387mm					
	packing quantity	2 sets/box					
	package weight	9.35kg					
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

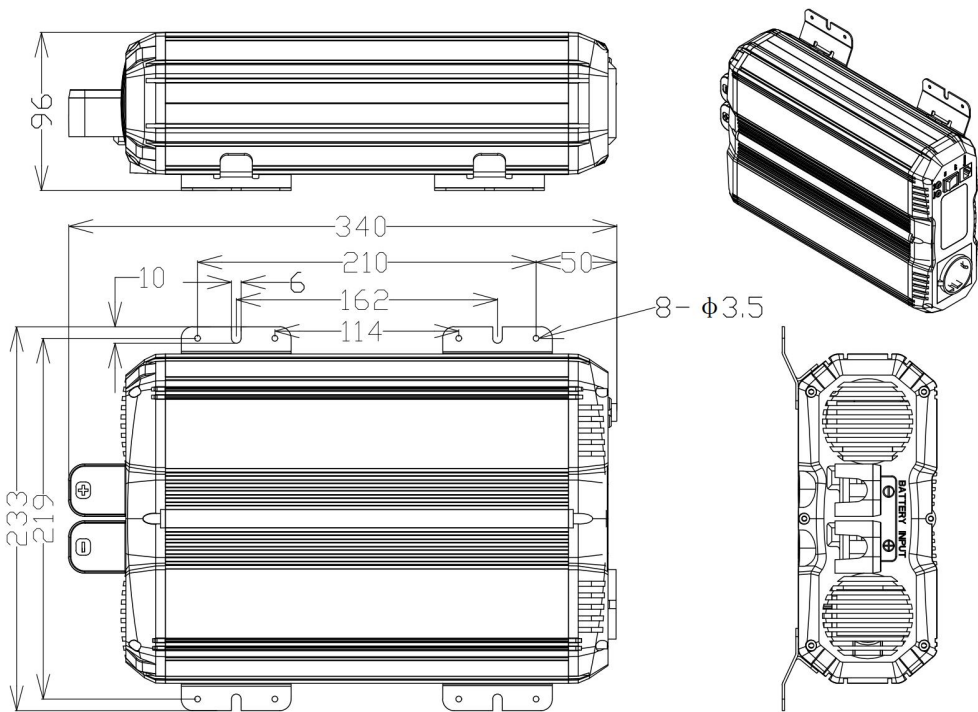
Derating curve



Curve 1< Relationship between ambient temperature and load power > : Ambient temperature :-25℃+40℃ can work 100%. > 40℃, 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 !