

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 :	KST-2500W-12V
	KST-3000W-24V
	KST-3000W-48V
versions :	V2.0
produce :	Li Tao
verifier :	She Qiangang

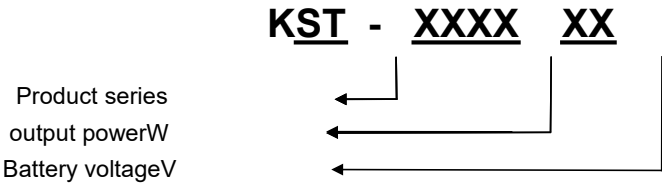
Customer confirms signature

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- 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

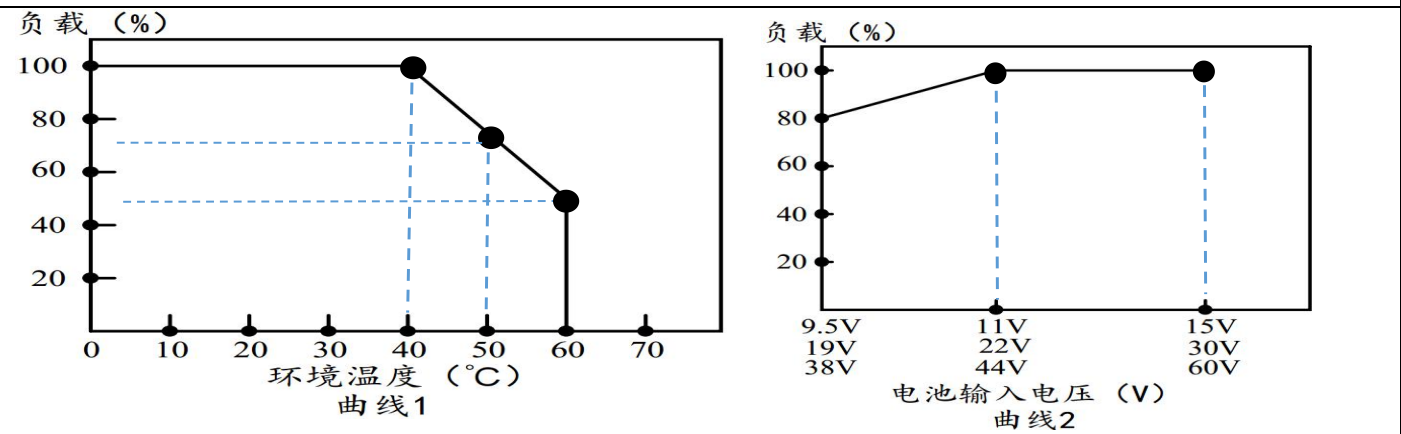


■Electrical specification

model		KST-2500W-12V □220V	KST-3000W-24V □220V	KST-3000W-48V □220V
output	Rated power (Wt)	Rated power2500W	Rated power3000W	Rated power3000W
	Peak Power (Wt)	Peak power5000W	Peak power6000W	Peak power6000W
	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)	250A	150A	75A		
	No-load loss (W)	≤10W				
	work efficiency	88%~92%				
	type of battery	Lead-acid battery or lithium battery				
Battery input protection	Built-in fuse	40A*8	40A*4	40A*4		
	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	374mm×268mm×105mm				
	product netweight	4.5kg				
	Product inner box size	425mm×325mm×183mm				
	carton size	430mm×340mm×396mm				
	packing quantity	2 sets/box				
	package weight	11.5kg				
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				

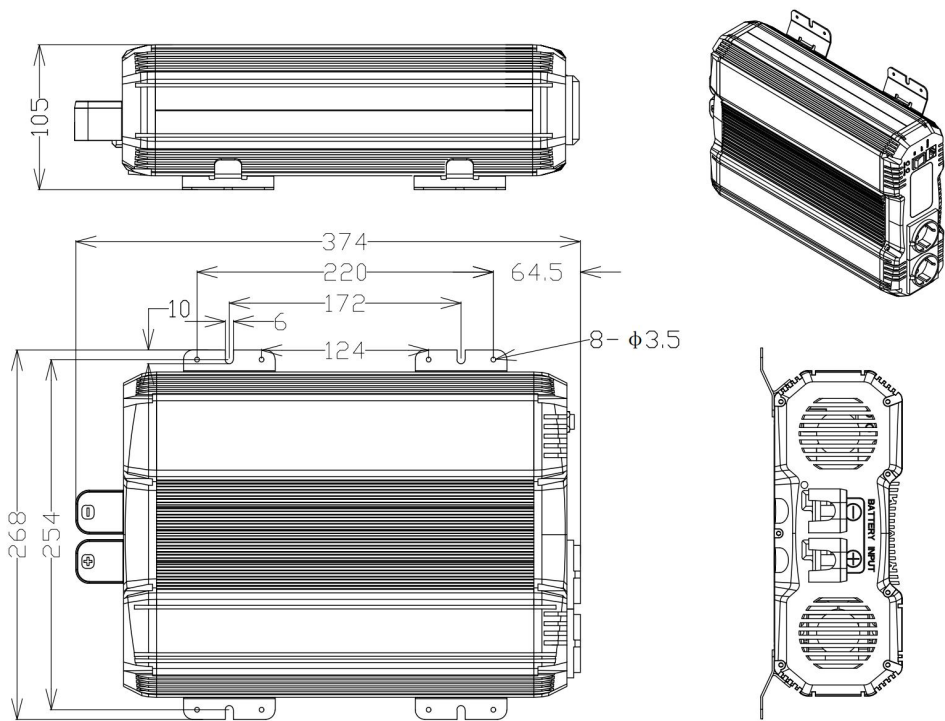
Derating curve



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 !