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4000 Watt Inverter Specification (48VDC Input)

版本: V1.0 .
Version 1.0.

型号 Model	KS4000-4822
输出功率 Output Power	4000W
直流电压输入 Input Voltage	DC48V
交流电压输出 Output Voltage	AC220V
输出波形 Output Waveform	纯正弦波 Pure Sine Wave
输出频率 Output Frequency	50Hz±1Hz
证书 Certification	CE/ROSH

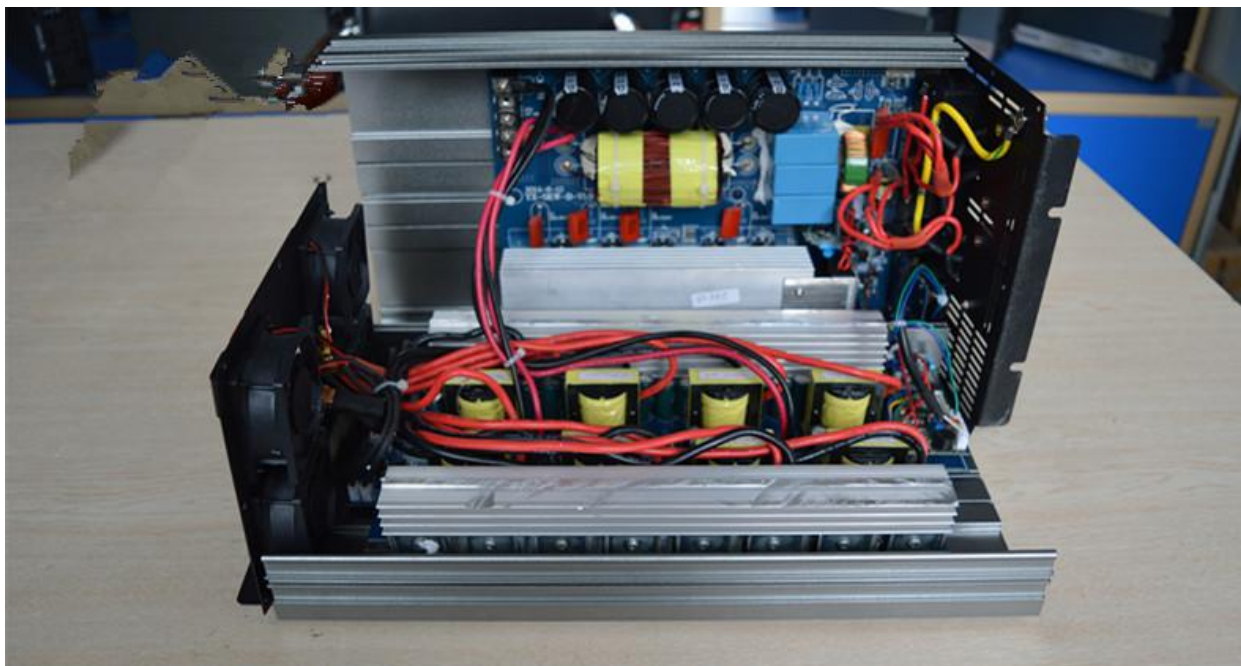
产品外部图片 <一>
External Picture(I)



产品外部图片 <二>
External Picture(II)



产品内部图片：
Internal Picture



产品包装图片
Package Picture



详细规格参数：Detailed Specification:

规格参数 (KS4000-4822) 纯正弦波高频逆变器 Specification(KS4000-4822) Pure Sine Wave High Frequency Inverter)		
产品型号 Product Model		KS4000-4822
输出 Output	持续功率 Continuous Power	4000 Watt
	峰值功率 Peak Power	8000 Watt
	输出波形 Output Wave	纯正弦波 (失真率 $\leq 3\%$) Pure Sine Wave (Distortion rate $\leq 3\%$)
	输出频率 Output Frequency	50Hz $\pm 2\%$
	输出电压 Output Voltage	AC 220V $\pm 10\%$
输入 Input	输入电压 Input Voltage	48V
	输入电压范围 Range of Input Voltage	DC 40V-60V
	低压报警 Low Voltage Alarm	DC 42V $\pm 0.5V$
	低压关闭保护 Low Voltage Shutdown Protection	DC 40V $\pm 0.5V$
	低压恢复 Low Voltage Recover	DC 48V $\pm 0.5V$
	过压关闭保护 Over Voltage Shutdown Protection	DC 60V $\pm 0.5V$
转换效率 Conversion Efficiency		90% (满负载) (Full Load)
空载电流 No-load Current		<0.8A
输入端子 Input Terminal		红色正极/黑色负极单独端子 Positive in Red/ Negative in Black, Separate Terminal
输出端 Output Terminal		2组多功能插座+2组接线排 Multi-functional Socket
工作温度范围 Operating Temperature Range		-10°C to +50°C
储藏温度范围 Storage Temperature Range		-30°C to +70°C
冷却方式 Cooling Mode		智能温控式风冷 Intelligent Temperature Controlled Air Cooling
过热保护 Overheat Protection		70°C ± 5 °C
外壳材质 Shell Material		铝 Aluminum
外壳颜色 Shell Color		灰色 Gray
包装信息 Packaging Information	产品尺寸 Product Size	450x220x156mm
	产品净量 Product Net Weight	9.9kg
	产品毛重 Product Gross Weight	11.4kg
	产品内盒尺寸 Product Inner Box Size	518x300x259mm
	外箱尺寸 Outer Box Size	52.3x31x27.3cm
	装箱数量 Packing Quantity	1 台/箱 1sets/ctn
	整箱重量 Total Carton Gross Weight	12.1kg

一. 注意事项:

Dos and don'ts:

- 逆变器须安装在通风干燥且远离易燃易爆物品的场合。

The inverter should be installed in a ventilated and dry place which away from the flammable and explosive materials.

- 要在远离儿童活动的场合使用。

To use in places far away from children's activities.

- 使用时须正确并牢固地安放产品。

The inverter must be properly and securely placed while using.

- 连接电池线时, 要将螺栓拧紧, 确保电池线与连接线柱的铜柱有良好的电性能接触。

The bolts should be tightened when connecting the battery cable and make sure the power cable and terminal has good electrical contact.

- 本操作指南是针对公司部分常规产品的说明, 不包括全部机型, 但操作原理基本一致。

This guide is for the part of the conventional products that do not include all models, but the operating principle is basically the same.

二. 保护功能:

Protection Function:

1. 欠压保护: 输入电压低于 $40.5 \pm 0.5V$ 时, 机器停止工作, 红灯亮, 蜂鸣器提示 3 声告警。

Under voltage protection: when the input voltage is less than $40.5 \pm 0.5V$, the inverter stops working and the red light is on and the green light is off.

2. 过压保护: 输入电压高于 $60 \pm 0.5V$ 时, 机器停止工作, 红灯亮, 电量显示 LED 闪烁, 蜂鸣器提示 4 声告警。

Over voltage protection: when the input voltage is higher than $60 \pm 0.5V$, the inverter stops working and the red light is on and the green light is off.

3. 过载保护: 当负载超出额定功率的 15%-20%时, 机器停止工作, 进入保护状态, 红灯亮, 蜂鸣器提示 10S 声告警后关闭机器, 等待 10S 自动恢复。

当负载超出额定功率的 40%-50%时, 机器停止工作, 功率 LED 循环亮 (跑马灯)。

Overload protection: when the load exceeds to 10%-15% of the rated power, the inverter stops working and enters to the protection state, the red light is on and the green light is off.

4. 短路保护: 当输出端短路时, 机器停止工作, 功率 LED 循环亮 (跑马灯)。

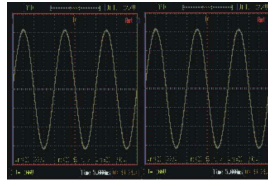
Short circuit protection: when the output is short circuit, the inverter stops working and enters to the protection state.

5. 过热保护: 温控点温度超过 $70^\circ C \pm 5^\circ C$, 机器停止输出, 红灯亮, 蜂鸣器提示 5 声告警。

Overheating protection: when the temperature control point is more than $70^\circ C \pm 5^\circ C$, the inverter stops outputting and enters to the state of protection, the red light is on and green light is off.

产品性能:

Product Performance:

各项参数: Parameters:						
测试项目 Test Item	负载功率 Load Power	输入电压 Input Voltage	输入电流 Input Current	输出电压 Output Voltage	输出频率 Output Frequency	输出波形 Output Waveform
结果 Result	0W	DC52V	0.8A	AC220±10%	50±1HZ	
	1000W	DC52V	21A	AC220±10%	50±1HZ	
	2000W	DC52V	43A	AC220±10%	50±1HZ	
	3000W	DC52V	64A	AC220±10%	50±1HZ	
	4000W	DC52V	85A	AC220±10%	50±1HZ	

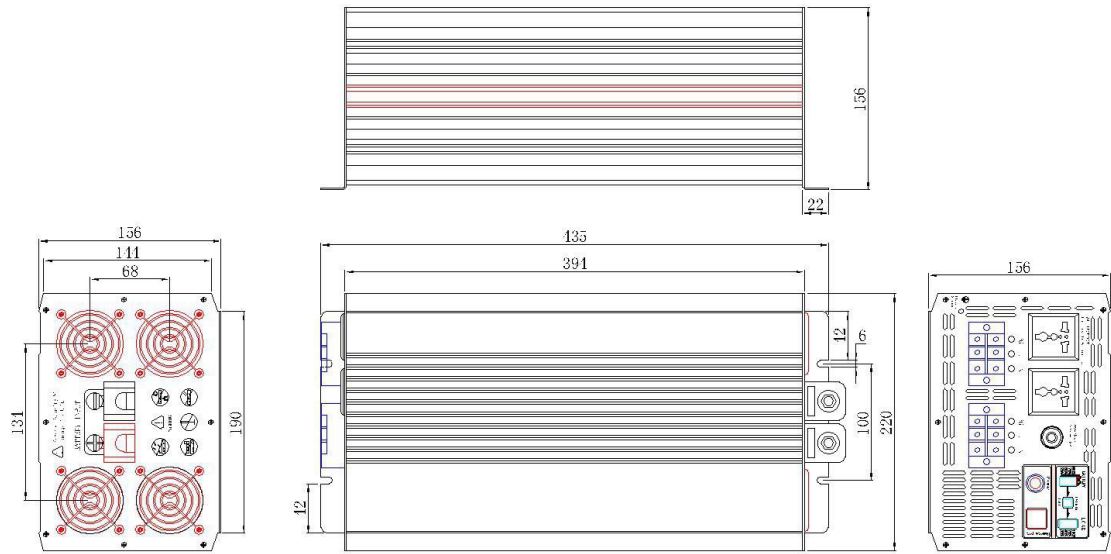
环境温度 25℃时负载测试:

Load Test at Ambient Temperature of 25℃:

负载功率 Load Power	工作时间 Working Hours	温控点温度 Temperature Control Point	机壳表面温度 Casing Surface Temperature	机器状况 Inverter Condition	
4000W	10 分钟 10mins	43℃	32℃	绿灯亮 Green light is on	正常工作 Normal work
	20 分钟 20mins	50℃	37℃	绿灯亮 Green light is on	正常工作 Normal work
	30 分钟 30mins	60℃	40℃	绿灯亮 Green light is on	正常工作 Normal work
	40 分钟 40mins	63℃	40℃	绿灯亮 Green light is on	正常工作 Normal work
	50 分钟 50mins	65℃	40℃	绿灯亮 Green light is on	正常工作 Normal work
	60 分钟 60mins	65℃	40℃	绿灯亮 Green light is on	正常工作 Normal work
	90 分钟 90mins	65℃	40℃	绿灯亮 Green light is on	正常工作 Normal work
	120 分钟 120mins	65℃	40℃	绿灯亮 Green light is on	正常工作 Normal work

安装尺寸:

Installation Dimensions:



4000W纯正弦波外壳结构图