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1.概述 (Overview)

3000 瓦系列逆变器是一款纯正弦波双向逆变器，该系列逆变器采用先进的 DSP TI2000 控制的数字设计，实现对输入、输出的电压、电流、电池电压以及机内温度的检测，控制精确，输入输出完全隔离，安全高效，有效提升了产品性能和系统可靠性，3000 瓦系列适用于住宅、商业、船舶、汽车、矿山、建筑工地和没有公用电源设施的偏远地区、输出可用于户外储能，家庭储能，照明、手机充电器、电脑、机电工具、通讯设备、户外露营设备、船舶交流电源、工厂设备等。

3000W series inverter is a pure sine wave bidirectional inverter. This series inverter adopts advanced DSP TI2000 controlled digital design to realize the detection of input and output voltage, current, battery voltage and internal temperature. The control is accurate, input and output are completely isolated, safe and efficient, effectively improving product performance and system reliability. 3000W series is applicable to residential, commercial, marine The output of automobiles, mines, construction sites and remote areas without public power facilities. The output can be used for outdoor energy storage, home energy storage, lighting, mobile phone chargers, computers, mechanical and electrical tools, communication equipment, outdoor camping equipment, AC power supply for ships, factory equipment, etc.

2.功能特点(Functional features)

2.1 纯正弦波输出，带负载能力强，应用范围广；

Pure sine wave output, strong load capacity, wide application range;

2.2 转换效率高，启动快，空载电流小；

High conversion efficiency, fast startup, low no-load current;

2.3 软启动方式启动，保护电器的启动风险；

Soft start mode starts to protect the starting risk of electrical appliances;

2.4 保护功能完善，具有欠压、过压、过载、过温、短路等保护；

The protection function is perfect, with protection against undervoltage, overvoltage, overload, over temperature, short circuit, etc.:

2.5 智能温控风扇，带载温度到 45℃ 以上启动,保障电源安全运行；

The intelligent temperature controlled fan can be started when the load temperature is above 45 °C to ensure the safe operation of the power supply;

2.6 智能温控保护，带载机内 NTC 温度到 85℃ ± 5℃ 时自动保护,保障电源安全；

Intelligent temperature control protection, automatic protection when the NTC temperature in the loaded machine reaches 85 °C ± 2 °C, ensuring power supply safety;

2.7 直流输入接口安装有防呆连接端子，避免极性反接，内置保险丝，安全可靠

DC input interface is equipped with anti stuck connection terminal to avoid reverse polarity connection, with built-in fuse, which is safe and reliable

3.逆变器电气性能指标(Inverter electrical performance specifications)

3.1.输入规格 Input specification

输入电压范围 Input Voltage Range	9.5V~15.5V	19V~31V	38V~62V
输入额定电压 (Rated Input Voltage)	12V	24V	48V
输入额定电流 Rated Input Current	260A Max(@12Vdc, Full Load)	130A Max(@12Vdc, Full Load)	65A Max(@12Vdc, Full Load)
工作效率 Efficiency	89% Min(@12Vdc, Full Load)	90% Min(@12Vdc, Full Load)	91% Min(@12Vdc, Full Load)
空载功耗 No Load Power Consumption	15.0W Max	15.0W Max	15.0W Max

3.2.输出规格 Output specification

输出额定电压 Rated Output Voltage	AC220V	AC220V	AC220V
输出电压范围 Output Voltage Range	220VAC±5%	220VAC±5%	220VAC±5%
输出额定频率 Rated Output Frequency	50Hz/60HZ 可设置	50Hz/60HZ 可设置	50Hz/60HZ 可设置
输出额定功率 Rated Output Power	3000W	3000W	3000W
输出波形	纯正弦波	纯正弦波	纯正弦波

4.充电器电气性能指标(Electrical performance specifications of charger)

4.1.输入规格 Input specification

输入电压范围 Input Voltage Range	180V-264V	180V-264V	180V-264V
输入频率范围 Input Frequency Range	47HZ-63HZ	47HZ-63HZ	47HZ-63HZ
输入额定电流 Rated Input Current	10A	10A	10A
最大浪涌电流 Maximum surge current	10A	10A	10A
PF 值 Power factor value	0.99@50~100% load	0.99@50~100% load	0.99@50~100% load

4.2.输出规格 Output specification

充电功率 Charging power	1750W	1750W	1750W
充电电流 charging Current	0-120A	0-60A	0-30A
充电电压 charge voltage	14.6V	29.2V	58.4V
工作效率 Efficiency	90%	91%	92%

5.保护功能(Protection function)

5.1.逆变保护功能 Inverter protection function

直流输入欠压保护 Low Voltage Protection	9.5±0.5V	19±0.5V	38±0.5V
直流输入欠压恢复 Low Voltage Recovery	12±0.5V	24±0.5V	48±0.5V
直流输入过压保护 Over Voltage Protection	15.5±0.5V	31±0.5V	62±0.5V
直流输入过压恢复 Over Voltage Recovery	14.5±0.5V	28.5±0.5V	57.5±0.5V
直流输入过功率保护 Over Power Protection	110%~130%	110%~130%	110%~130%
输出过压保护 Output Overvoltage Protection	264±1VAC(保护后需重启电源)	264±1VAC(保护后需重启电源)	264±1VAC(保护后需重启电源)
过温保护 Over Temperature Protection	85℃±5℃ (NTC)	85℃±5℃ (NTC)	85℃±5℃ (NTC)
开启风扇温度 Open Fan Temperature	45℃ (NTC)	45℃ (NTC)	45℃ (NTC)
关闭风扇温度 Turn Off Fan Temperature	40℃ (NTC)	40℃ (NTC)	40℃ (NTC)
短路开机保护 Over Temperature Protection	短路开机, 短路解除后, 输出自动恢复	短路开机, 短路解除后, 输出自动恢复	短路开机, 短路解除后, 输出自动恢复

5.2.充电保护功能 Charge protection function

输出过压保护 Output Over Voltage Protection	15.5±0.5V	31±0.5V	62±0.5V
输出过压保护恢复 Output Over Voltage Recovery	13.2±0.5V	26.4±0.5V	52.8±0.5V
输出过流保护 Output Overcurrent Protection	110%~130%	110%~130%	110%~130%
过温保护 Over Temperature Protection	85℃±5℃ (NTC)	85℃±5℃ (NTC)	85℃±5℃ (NTC)
短路开机保护 Short-circuit Boot Protection	短路开机, 短路解除, 输出自动恢复	短路开机, 短路解除, 输出自 动恢复	短路开机, 短路解除, 输出自 动恢复
交流输入过压保护 Ac Input Overvoltage Protection	270±1VAC	270±1VAC	270±1VAC
交流输入过压保护恢复 Ac Input Overvoltage Recovery	264±1VAC	264±1VAC	264±1VAC
交流输入欠压保护 Ac Input Undervoltage Protection	170±1VAC	170±1VAC	170±1VAC
交流输入欠压保护恢复 Ac Input Undervoltage Recovery	175±1VAC	175±1VAC	175±1VAC

6.环境 Environment

工作温度 Operating Temperature	-20℃ +50℃	-20℃ +50℃	-20℃ +50℃
储存温度 Storage Temperature	-30℃+70℃/-22~+158°F	-30℃+70℃/-22~+158°F	-30℃+70℃/-22~+158°F
工作湿度 Operating Humidity	20%~90%RH 无冷凝	20%~90%RH 无冷凝	20%~90%RH 无冷凝
储存湿度 Storage Humidity	10%~95% RH 无冷凝	10%~95% RH 无冷凝	10%~95% RH 无冷凝
冷却方式 Cooling method	风冷	风冷	风冷

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