

离网光伏产品系列 *OFF-GRID PV PRODUCTS SERIES*

离网逆变器

Off-grid Inverter



单相离网逆变器 Single-phase Off-grid Inverter

产品简介 Introduction

针对新能源发电系统设计制造的离网逆变电源，是光伏发电系统的核心部件，它将直流电能转变为交流电能，主要应用于光伏电站、风力发电站、风、光、油、蓄互补发电系统和户用光伏供电系统等领域。输出带隔离变压器，纯正弦波输出，优越的过载能力和完善的保护功能，为交通不便、环境恶劣的山区、牧区、边防、海岛等无电地区，利用新能源发电提供了绝对的可靠性。

系统支持市电/柴油发电机输入，可以根据客户要求设置输出模式为旁路优先或者光伏优先。

New energy generation systems for design and manufacture of off-grid inverter is the core component of photovoltaic power generation system, it can be converted to direct the center of photovoltaic system, it change DC to AC support load ,mainly used photovoltaic power plants, wind power plants, wind, light, oil, storage and solar power generation household photovoltaic systems and power supply systems in the field. Output with isolation transformer, pure sine wave output, superior overload and perfect protection for inaccessible mountainous harsh environments, pastoral, border, island and other areas without electricity, the use of new energy generation provides absolute reliability.

The system supports electricity / diesel generator input, you can set the output mode according to customer requirements for a bypass or photovoltaic priority.

功能特点 Features

- ◆ 纯正弦波输出，足功率输出。
- ◆ 保护功能完善：输出过载保护、输出短路保护、防反接保护、输入过欠压、过温保护等一系列报警和保护功能。
- ◆ 工频电路设计，系统稳定性好，故障率低，寿命长。
- ◆ 瞬态响应好、波形失真小、逆变效率高、输出电压稳定、具有极佳的EMI指标。
- ◆ 本系列产品带载能力强，除了可带动各类阻性负载，还可带载各类感性设备，比如马达，空调，电钻，日光灯，气体灯等；几乎可以带动所有的负载。
- ◆ 智能空载自动休眠功能。
- ◆ Pure sine wave output, full power output.
- ◆ Protection function: output overload protection, output short circuit protection, reverse polarity protection, input over voltage, over temperature protection and a series of alarm and protection.
- ◆ Industrial-frequency circuit design, system stability, low failure rate, long life.
- ◆ Transient response, waveform distortion, high efficiency inverter output voltage stability, with excellent EMI indicators.
- ◆ This series of strong load capacity, in addition to drive all kinds of resistive load, but also all kinds of perceptual load type equipment, such as motors, air conditioning, electric drills, fluorescent lamps, gas lamps, etc; you can drive almost all load.
- ◆ Intelligent empty load automatic sleep function.

技术参数 Technical data

型号 Model	GSI24-500W	GSI48-1K	GSI48-2K	GSI48-3K	GSI48-4K
额定功率 Rated power (KW)	0.5	1	2	3	4
输入电压 Input voltage (VDC)	24.0	48.0			
深x宽x高 (D x W x H) mm	180*305*285		580*221*515		
重量 Weight (Kg)	8	15	31	38	45
型号 Model	GSI96	GSI110	GSI192	GSI220	
额定功率 Rated power (KW)	4-6	4-7	4-10	4-10	12-20
输入电压 Input voltage (VDC)	96.0	110.0	192.0	220.0	
深x宽x高 (D x W x H) mm		580*221*515			450*750*1100
重量 Weight (Kg)			70-120		

通用参数 General parameters

市电旁路 (选配) Mains bypass (optional)	
输入电压允许范围 Input voltage range (Vac)	220±15%/110±15%
输入频率 Input Frequency (Hz)	50/60±3%
市电充电电流 (选配) Mains charging current (optional)	标准 : 5A Standard : 5A

交流输出 AC output

输出波形 Output waveform	纯正弦波 Pure sine wave
输出电压 Output voltage	220VAC±1% ; 110VAC±1% (可定制其他输出电压) (Other output voltages can be customized)

输出频率 Output frequency	50/60±1%
输出波形失真率 Output waveform distortion (THD)	≤2% (线性负载) (liner overload)
逆变效率 (80% 阻性负载) Inverter Efficiency	≥85%
电流峰值系数 Current peak factor	3:1
过载能力 Overload	105-110% , 600秒 ; 110-125% , 60秒 ; >125% , 1秒 105-110% , 600seconds ; 110-125% , 60seconds ; >125% , 1second
显示方式 Display mode	LCD+LED
保护功能 Protection	输入反接保护、输入欠压保护、输入过压保护、输出过载保护、输出短路保护 (不自动恢复 , 需重启机器) 、机器过热保护。 Input reverse polarity protection, input under-voltage protection, input overvoltage protection, output overload protection, output short circuit protection (no automatic recovery, the need to restart the machine), overheating protection.
通讯功能 Communication	RS485(选配)(optional)
环境 environment	
防护等级 Protection degree	IP20
使用海拔 Altitude (m)	≤4000 (1000m 以上每 100m 降额 1%) (1000m above derating 1% per 100m)
允许相对湿度 Permissible relative humidity	<95% 无凝露 No condensation
环境温度 Ambient Temperature (°C)	-10 ~ +50
噪音 noise (1m)	≤50dB

以上数据为参考数据，若有变动，恕不另行通知。特殊电压可定制。

Above information is just for reference,no inform if there is any change.Special voltage can be customized.