

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

### 混合型逆变器

Hybrid Inverter



### GSD系列混合型逆变器 GSD series Hybrid Inverter

#### 产品简介 Introduction

GSD系列逆控一体机是集光伏MPPT控制器、市电充电器与高频逆变器功能为一体的纯正弦波光伏并、离网发电设备。通过控制器或者市电充电器给蓄电池充电，同时蓄电池向逆变部分供电，逆变部分再将交流电力并网发电或提供给交流负载。

GSD series Controller & Inverter Integration machine is including MPPT controller , Grid Charger & High-frequency inverter in one machine and pure sine wave integration of Grid & off-grid power generation

equipment. By controller or grid charger for battery, battery supply power to the inverter at same time, inverter part provide the AC power to Grid or to AC load.

### 功能特点 Features

- ◆ 先进的DSP控制设计可以让数据侦测更精准
- ◆ 内建智能型MPPT控制器
- ◆ 产生电力可通过软件设定自用同时并网
- ◆ 可调整电池充电电流
- ◆ 可设定多种模式运作: 并网, 独立型及混合型
- ◆ 内建定时器可设定机器启动与关闭
- ◆ IP65防尘设计可以适用于户外与恶劣环境里
- ◆ 多种通讯接口如USB, RS-232, 及SNMP, 可搭配监控软件达到最佳监控效益

◆ Advance DSP control design can make detection more accurate  
 ◆ Built-in intelligent MPPT controller  
 ◆ Product electric power can be set by software to private use or supply to Grid at same time  
 ◆ Adjustable battery charging current  
 ◆ Set several kinds of mode operation: Grid, Independent mode (off-grid) and Hybrid  
 ◆ Building-in timer can be set machine start and shut down  
 ◆ IP65 dustproof design can be applicable the outdoor and harsh environment  
 ◆ Variety of communication interface such as USB, RS-232 & SNMP, can math monitoring software to achieve the best monitoring results

### 技术参数 Technical data

	单相输出 Single phase output	三相输出 Three phase output
额定功率 Rated power	3000 W	10000 W
PV输入(直流) PV input (DC)		
额定电压 Rated voltage	360 VDC	720 VDC
最大输入电压 Maximum input voltage	500 VDC	900 VDC
启动电压/初始并网电压 Start voltage / Initial Grid voltage	116 VDC / 150 VDC	320 VDC / 350 VDC
最大功率点(MPPT)追踪范围 Mppt voltage range	250 VDC ~ 450 VDC	350 VDC ~ 850 VDC
最大输入电流 Maximum Input current	1 x 18A	2 x 18.6A
电网输出(交流) Grid output (AC)		

额定电网电压 Rated Grid voltage	208/220/230/240VAC	230VAC(P-N)/400VAC(P-P)
电网电压范围 Grid voltage range	184 - 265 VAC	184 - 265 VAC / 每一相
电网频率范围 Grid frequency range	47.5 ~ 50.2 Hz 或 59.3~ 60.5Hz (自适应)	47.5 ~ 50.2 Hz 或 59.3~ 60.5Hz (自适应)
额定输出电流 Rated output current	13A	14.5 A / 每一相
功率因数 Power factor		> 0.99
电网输入(交流) Grid input (AC)		
电网启动电压 Grid start Voltage	120-140 VAC	120-140 VAC 每一相
自动重启电压 Auto Re-start voltage	180 VAC	180 VAC
输入电压范围 Input voltage range	170 - 280 VAC	170 - 280 VAC
最大输入电流 Maximum input current	30 A	40 A
电池模式输出(交流) Battery model output (AC)		
额定输出电压 Rated output voltage	208/220/230/240VAC	230VAC(P-N)/400VAC(P-P)
输出频率 Output frequency		50 Hz / 60 Hz (自适应 Auto)
输出波形 Output waveform		纯正弦波 Pure Sine Wave
效率(DC至AC) Efficiency	93%	91%
电池 & 充电器 Battery & Charger		
额定电压 Rated Voltage	48 VDC	48 VDC
最大充电电流 Maximum charger current	预设(Preset) 25A, 5A - 25A (可调整 Adjustable)	预设(Preset) 60A, 10A-200A(可调整 Adjustable)
常规规格 General specification		
物理性能 Physical properties		
深 x 宽 x 高 (DxWxH)mm	107x 438 x 480	167.5 x 500 x 622
安装方式 Install way	壁挂式 Wall-mounted	壁挂式 Wall-mounted
净重 N.W. (KG)	15.5	45
使用环境 Using environment		
湿度 Humidity	0 ~ 90% 相对湿度无凝结 Relative humidity without condensation	
运行温度 Operating temperature	0 -40°C	-10 -55°C
海拔范围 Elevation range	0 ~ 1000公尺 (M)	

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.