

## Specification



### 太阳能逆变器GD系列 SOLAR INVERTER GD SERIES 5500W~11000W

#### 应用范围 Application



#### 产品特性 Features

-  锂电自启, 更好匹配锂电充电  
Lithium Battery Auto-restart Function, More Convenient for Lithium Battery Charging
-  智能供电模式, 智能分配太阳能/市电/电池的电能占比  
Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel/Mains/Battery Power Shares
-  市电充电电压/PV充电电压智能可调, 精准匹配各种电池充电要求  
Utility Charging Voltage/PV Charging Voltage Adjustable, Match Different Battery Charging Requirements
-  方便安装, 方便运输  
Convenient Installation And Transportation
-  无熔丝开关电池防反接功能: 安装更安全  
Battery Reverse Connection Protection with Fuse Switch, Safer Installation
-  1.0 PF, 高效逆变, 低损耗节能/环保/省电/省钱  
PFL0, High Efficiency, Lower Consumption, Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
-  支持不带电池工作: 降低系统成本  
Support Working without Battery, Reduce Solar System Cost
-  最多可以并机九台, 支持更大容量的负载, 扩容简单  
Parallel Function Up to Maximum 9 Units, Enlarge More Loads
-  BMS 锂电池BMS协议  
BMS function for lithium battery
-  可以外接wifi, 数据实时化监控  
Communication Option: External WIFI, Supervise at Any Time

Shenzhen WELLSAN Technology Co.,Ltd is a new energy company established in 2016,mainly engaged in lithium iron phosphate batteries,energy storage battery packs,mainly providing new energy battery products related to home solar energy storage and outdoor electrical power supply for responding to the national goal of achieving carbon neutrality,reducing carbon emissions and bringing green new energy to the world.

Wellsan's products are widely used in:home solar energy storage,backup power for communication base stations,UPS systems,RVs,golf carts,forklifts,yachts and other power supply fields. Since its establishment,Wellsan adhere to market and customer oriented,and developing in the new energy industry.The enterprise has passed ISO9001 quality management system certification,and its products have obtained UL,CE,UN38.3,MSDS,IEC and other international certifications.

At present, we have reached a long-term strategic partnership with many overseas customers in the new energy industry, and has established lots of logistics warehousing bases to efficiently serve customers in North America, Netherlands and the United Kingdom etc.

Adhering to the "coexistence of excellent quality and excellent service", we continue to provide more competitive products and reduce the intermediate costs for many foreign entrepreneurs, merchants and retailers in the new energy industry.

## **Wallsan Hybrid Inverter 3kw 5kw 8kw 11kw Techfine Off-grid On-grid Solar Inverter for Solar Energy Storage System**

**NOTE: The platform freight is for reference only. The exact freight shall be determined according to different countries and places of shipment. The final freight can be confirmed by contacting us at any time**

Solar energy output is usually 12VDC, 24VDC and 48VDC 160V-700VDC. In order to supply power to 230VAC/400VAC appliances 3 phase, DC power generated by solar power generation system must be converted into AC power, so DC-AC inverter must be used.

Performance characteristics:

- \* Load friendly: Stable sine wave AC output via SPWM modulation
  - \* Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
  - \* Dual LFP battery activation method: PV&mains
  - \* Uninterrupted power supply: simultaneous connection to utility grid/generator and PV
  - \* Intelligent programming: the priority of the output from different energy sources can be set
  - \* High energy efficiency: up to 99.9% MPPT capture efficiency
  - \* Instant viewing of operation: the LCD panel displays data and settings, while you can also be viewed using the app and webpage
  - \* Power saving: power saving mode automatically reduces power consumption at zero-load
  - \* Efficient heat dissipation: via intelligent adjustable speed fans
  - \* Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.
- under-voltage and over-voltage protection and reverse polarity protection

型号Model		GD5548JMHB	GD6248JMHB	GD8648MHB	GD11048MHB
输入 Input voltage	输入制式Input Formation	L+N+PE			
	额定输入电压AC Input	220/230/240VAC			
	电压范围Input Voltage Range	90-280VAC±3V (正常模式Normal Mode) 170-280VAC±3V (UPS模式UPS Mode)			
	频率范围Frequency	50/60Hz (自适应 Adaptive)			
输出 Output	输出额定功率Rated Power	5500W	6200W	8600W	11000W
	输出电压Output Voltage	220/230/240VAC±5%			
	输出频率Output Frequency	50/60Hz±0.1%			
	波形 Output Wave	纯正弦波Pure Sine Wave			
	切换时间(可设) Transfer Time(Adjustable)	计算机设备10ms, 家用电器20ms 10ms for Computer Equipment, 20ms for Household Equipment			
	峰值功率Peak Power	11000VA	12400VA	17200VA	22000W
	过载能力 Overload Ability	电池模式 Battery Mode : 21s@105%-150% Load 11s@150%-200% Load 400ms@>200% Load			
并网运行 Grid connected Operation	输出电压Output Voltage	220/230/240VAC			
	馈入电网电压范围Grid Voltage Range	195-253VA			
	馈入电网频率范围Grid Frequency Range	49-51±1Hz/59-61±1Hz			
	标称输出电流Output Current	23.9A	26.9A	34.7A	47.8A
	功率因数范围Power Factor Range	>0.99			
	最大转换效率(DC/AC) Conversion Efficiency	98%			
电池 Battery	额定电压Rated Voltage	48VDC			
	恒压充电电压(可设) Constant Charging Voltage (Adjustable)	56.4VDC			
	浮充充电电压(可设) Float Charging Voltage (Adjustable)	54VDC			
充电器 Charger	PV充电方式PV Charging Method	MPPT	MPPT	MPPT*2	MPPT*2
	PV最大输入功率Max PV Input	5500W	6200W	2x5500W	2x5500W
	追踪范围MPPT Tracking Range	120-500VDC	120-500VDC	90-500VDC	90-500VDC
	最佳Vmp工作范围 Best VMP Working Range	300-400VDC	300-400VDC	300-400VDC	300-400VDC
	最大PV输入电压 MAX PV Input Voltage	500VDC	500VDC	500VDC	500VDC
	最大PV输入电流 MAX PV Input Current	18A	18A	18A/18A	18A/18A
	最大PV充电电流 MAX PV Charge Current	100A	100A	150A	150A
	最大市电充电电流 MAX AC Charge Current	60A	80A	120A	150A
	最大充电电流 MAX Charge Current	100A	100A	150A	150A
显示Display	LCD	可显示运行模式/负载/输入/输出等Can display operating mode/load/input/output			
接口Interface	RS232	5PIN/Pitch2.54mm, 波特率Baud Rate 2400			
	扩展插槽通讯接口 Expansion Slot Communication Interface	2×5PIN/Pitch2.54mm, 锂电池BMS通信卡、WIFI卡、干接点卡等 Lithium Battery BMS Communication Card, WIFI 2×5PIN/Pitch2.54mm			
	并机接口Parallel Interface	并机(网)功能 Support Parallel			
环境参数 Ambient Temperature	运行环境温度 Operating Temperature	-10°C~50°C			
	储存温度Storage Temperature	-15°C~60°C			
	海拔高度 Ork Altitude	海拔高度不应超过1000m, 1000m以上降额, 最高4000m, 参考IEC62040 No more than 1000m, if 1000m<, Rate power will lower, MAX 4000m, Refer to IEC62040			
	运行环境湿度Operating Environment Humidity	20%-95%无凝露Non Condensing			
	噪音Noise	≤50db			
物理参数Dimension	深*宽*高L*W*H (mm)	495*312*146mm		570*500*148mm	
标准和认证 Standards and Certifications		EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1			

