



High MPPT Efficiency and DSP Control in Hybrid Inverters for Solar Energy Setups

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GFS
- Certification: CE
- Model Number: PSM2W
- Minimum Order Quantity: 10 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



GFS-PSM2W-V-SERIES Low Frequency Pure Sine Wave Hybrid Inverter

Product Specification

- MPPT Efficiency: Up To 98%
- Input Voltage Range: 160-260VAC
- Battery Voltage: 12VDC, 24VDC, 48VDC
- Output Frequency: 50Hz/60Hz (Auto-sensing)
- Output Efficiency: $\geq 90\%$
- Protection Function: Battery Under-voltage, Over-voltage, Short Circuit, Over-temperature
- Highlight: **Hybrid Inverters, Hybrid Inverters, Hybrid Inverter**



GFS-PSM2W-V-SERIES Low Frequency Pure Sine Wave Hybrid Inverter-1

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Product Description

High MPPT Efficiency and DSP Control in Hybrid Inverters for Solar Energy Setups

Product Description:

This hybrid inverter with an integrated MPPT solar controller is designed to optimize energy management for home, office, vehicle systems, and solar energy setups. Featuring high MPPT efficiency of up to 98%, it incorporates intelligent DSP control and advanced protection functions, ensuring stable and reliable power output. Its advanced photoelectric isolation circuit technology enhances safety, while the built-in AVR ensures continuous pure sine wave output, ideal for a variety of loads.

Rated power	1KW 2KW	3KW 4KW	5KW 6KW
INPUT			
Grid input voltage	range 160-260VAC		
Grid frequency range	50Hz-60Hz(auto-sensing)		
OUTPUT			
Output voltage	110VAC/120VAC/220VAC/230VAC/240VAC		
Output frequency	50Hz/60Hz		
Output efficiency	≥90%		
Output wave	Pure sine wave		
BATTERY SPECS			
Battery voltage	12VDC/24VDC/48VDC	24VDC/48VDC	48VDC
Battery low-voltage protection	10VDC/20VDC/40VDC	20VDC/40VDC	40VDC
Battery high-voltage protection	16.5VDC/33VDC/66VDC	33VDC/66VDC	66VDC
Battery type	Lead acid,Gel,lithium battery,customized		
Adjustable battery charging voltage	Enter custom settings:users can adjust the voltage independently, applicable to all battery types		
CHARGING CONTROL			
AC charge function	Can be opened or closed at any time		
AC charging current	Small,medium,high,super high (10A-90A)		
SCC type	MPPT		
MPPT charging efficiency	98%		
Charging mode	Lead-acid:three-stage charging,constant current,constant voltage, floating charge Lithium battery:constant current,constant voltage		
PV maximum input voltage	200VDC		
PV charging current	Max 60A		
GENERAL PARAMETERS			
Overload alarm	It will alarm at 110%load,shut down in 1 minute at 120%load,shut down in 3 seconds at 150%load.Automatic shutdown when the load is lower than 8%		
Protection function	Battery undervoltage, overvoltage, short circuit, input too high, input too low, over temperature, low temperature, etc. protection		
4 operation modes	Grid priority mode,battery priority mode,energy saving mode,RV priority mode		
Fan control	Automatically intelligent speed regulation according to the internal temperature of the machine		
Conversion time	<5ms		
Environment temperature	-10℃~50℃		
Peak starting power	3 times		
RS232 communication	Support		
WiFi/GPRS		Support (Optional)	
Mobile APP		Support (Optional)	
SIZE,D*W*H(mm)	420*170*535 420*220*535		
Net weight (kg)	16 19	21 28 31 35	
Note:can be customized according to	customer requirements		

Application:

The hybrid inverter is ideal for solar energy systems, residential energy storage, and mobile power applications in vehicles. It is particularly suitable for environments requiring efficient energy conversion and management, such as homes, offices, and off-grid locations. With its flexible battery compatibility (lead acid, gel, lithium), it meets diverse energy needs while providing real-time system protection and monitoring capabilities. Its robust construction makes it effective in harsh environments with a wide AC input voltage range and intelligent charging system.

Shipping Methods

Supports global air and sea shipping.



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