



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

Basic Information

. Place of Origin: China . Brand Name: **GFS** CE · Certification: PSM2W Model Number: • Minimum Order Quantity: 10 units

• Price: consult prices online consult online Packaging Details:

• Payment Terms: T/T



Product Specification

• MPPT Efficiency: Up To 98% • Input Voltage Range: 160-260VAC

12VDC, 24VDC, 48VDC • Battery Voltage: • Output Frequency: 50Hz/60Hz (Auto-sensing)

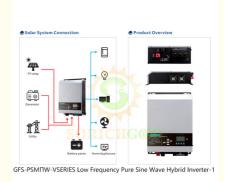
• Output Efficiency:

• Protection Function: Battery Under-voltage, Over-voltage, Short

Circuit, Over-temperature

. Highlight: Hybrid Inverters, Hybrid Inverters,

Hybrid Inverter



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.

technology enhances sa				
Rated power	1KW 2KW	3KW 4KW	5KW 6KW	
INPUT				
Grid input voltagerange	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	1 1 1 1 1 1 1			
Battery voltage	12VDC/24VDC/48VD C	24VDC/48VDC	48VDC	
Battery low-voltage protection	10VDC/20VDC/40VD C	20VDC/40VDC	40VDC	
Battery high-voltage protection	16.5VDC/33VDC/66V DC	33VDC/66VDC	66VDC	
Battery type	Lead acid,Gel,lithium b	attery,customized		
Adjustable battery charging yoltage	Entercustom settings:users can adjust the voltage independently, applicable to all battery types			
CHARGING CONTROL	To			
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 alarmat 110%load,shut down in 1 minuteat 120%load,shut down in 3 seconds at 150%load.Automaticshutdownwhen the load is lower than 8%			
D (Battery undervoltage,overvoltage,short circuit,inputtoo high,			
Protection function	otection function 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 intelligentspeed regulation according to the internal temperature of the machine			
Conversion time	<5ms			
Environmenttemperatur e	-10°C~50°C			
Peak starting power	3 times			
RS232 communication	Support			
WiFI/GPRS		Support (Optional)		
MobileAPP		Support (Optional)		
SIZE,D*W*H(mm)	420*170*535 420*220			
Net weight (kg)	16 19	21 28 31 35		
Note:can be customized	customer			
according to	requirements			
Annlication				

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.

Supports global air and sea shipping.







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