

3KW~10KW Off-grid High frequency Inverter

Features



- Output power factor PF=1.
- Support parallel operation up to 9 units.
- With output short circuit protection function.
- Pure sine wave output, adaptable to different loads.
- Support lithium battery activation and wake-up function.
- With BMS module, can automatically identify and match the battery.
- Small output voltage distortion, high efficiency, with a small-and-light body design.
- Multiple communication interfaces are optional, external Wi-Fi module to monitor data in real time.
- Support adjusting the proportion of PV, AC and battery input when powering the load or charging the battery.
- The conformal coating is available to protect the circuit board from the erosion of the harsh environment, thereby improving and extending the service life of the machine and ensuring the safety and reliability of use.



Hybrid



This high-frequency inverter is suitable for conventional applications such as home appliances and industrial equipment, such as home air conditioning, lighting, and television. At the same time, it has the advantages of higher power density and smaller size; higher efficiency and faster response speed, which is suitable for applications that require fast response, such as electric vehicles, solar panels, etc.

Product Parameters

Model	SHF-3KW	SHF-3.5KW	SHF-5KW	SHF-5.5KW	SHF-10KW	
Efficiency	MPPT Efficiency		>98%			
	Efficiency (AC Charging)		>98%			
	Efficiency (Battery Mode)		91~94%			
AC	Rated Power	3000W	3500W	5000W	5500W	10000W
	Rated Input Voltage	220 / 230 / 240VAC				
	Voltage Range	90V~280V ± 3V (Normal Mode) ; 170V~280V ± 3V (UPS Mode)				
	Input Frequency	50Hz / 60Hz (Self-adapting)				
	Rated Output Voltage	220 / 230 / 240VAC ± 5%				
	Rated Output Frequency	50Hz / 60Hz ± 0.1%				
	Output Waveform	Pure Sine Wave				
	Peak Power	6000VA	7000VA	10000VA	11000VA	20000VA
	MAX AC Charging Current	60A	60A	60A	60A	120A
	MAX Charge Current	60A	60A	100A	100A	160A
Battery	Battery Type					Lead-acid / Water / Li-ion / Gel
	Rated Voltage	24VDC	24VDC	48VDC	48VDC	48VDC
	Charging Voltage Range (Settable)	27~28.2VDC		54~56.4VDC		
PV	PV Charging Mode	MPPT	MPPT	MPPT	MPPT	MPPT * 2
	MAX PV Input Power	4000W	4000W	5500W	5500W	5500W * 2
	MPPT Input Voltage Range	300V~500VDC				
	MAX PV Input Voltage	120V~500VDC				
	MAX PV Input Current	16A	18A	20A	20A	20A/20A
MAX PV Charging Current	60A	60A	100A	100A	160A	
Display & Interface	LCD	LCD display operating mode, load, input, output, etc				
	RS232	Baud Rate 2400				
	Extendable Communication Interface	Lithium Battery BMS Communication, WIFI, Dry Contact, etc				
	Parallel Interface	NO	NO	YES	YES	NO
General Parameters	Operating Temperature	0°C~40°C				
	Storage Temperature	-15°C~60°C				
	Operating Humidity	20%~95% (Non-condensing)				
	Operating Altitude	≤1000m (Derate occurs when > 1000m, MAX 4000m, Refer to IEC62040)				
	Noise	≤50dB				
	Input Formation	L+N+PE				
	Transfer Time	10ms for Computer Equipments ; 20ms for Home Appliances				
	Dimensions (W*D*H)	385*195*565mm (Packaged)				702*257*753mm (Packaged)
	Weight	N.W. 9.1kg G.W. 10.3kg		N.W. 10.7kg G.W. 12.1kg		N.W. 22.2kg G.W. 23.7kg
	Standards	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1				