

Single Phase Off-grid High Frequency Inverter







SHF-3KW/5KW/8KW/11KW



SHF series high-frequency single-phase off-grid inverter, with sufficient power and high efficiency, adopts Loongson A1200 DSP digital CPU. It can quickly respond to various extreme environmental conditions such as surges, spikes, harmonics, short circuits, interference, lightning strikes, and better protect the battery pack.



ADVANTAGES-FEATURES

-  Pure Sine Wave Output, Adaptable to Different Loads
-  Power Factor =1, Higher Efficiency, Lower Consumption
-  MPPT Efficiency >98%, Charging Efficiency >98%
-  Parallel Operation Up to Maximum 9 Units, Enlarge More Loads
-  Intelligent Distribution of Solar Panel/ Grid/Battery Power Shares
-  Support Lithium Battery Activation and Wake-up Function

Technical Data

Model	SHF-3KW	SHF-5.5KW	SHF-8KW	SHF-11KW
PV Data				
PV Charging Mode	MPPT	MPPT	MPPT * 2	MPPT * 2
Max. PV Input Power	4000W	5500W	4000W*2	5500W * 2
MPPT Input Voltage Range	120V~500VDC		90~500VDC	
Max. PV Input Voltage	500VDC			
Max. PV Input Current	16A	20A	18A/18A	18A/18A
Max. PV Charging Current	80A	100A	120A	150A
AC Data				
Rated Power	3000W	5500W	8000W	11000W
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 Wave form	Pure Sine Wave			
Peak Power	6000VA	10000VA	16000VA	22000VA
Max. AC Charging Current	60A	60A	60A	60A
Max. Charge Current	60A	100A	120A	150A
Battery Data				
Battery Type	Lead-acid / Water / Lithium-ion / Gel			
Rated Voltage	24VDC	48VDC	48VDC	48VDC
Charging Voltage Range (Settable)	27~28.2VDC	54~56.4VDC		
Efficiency				
MPPT Efficiency	>98%			
Efficiency (AC Charging)	>98%			
Efficiency (Battery Mode)	91~94%			
Display & Interface				
LCD	LCD display operating mode, load, input, output, etc			
RS232	Baud Rate 2400			
Extendable Communication	Lithium Battery BMS Communication, WIFI, Dry Contact, etc			
Parallel Interface	NO	YES	YES	YES
General Data				
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 Format	L+N+PE			
Transfer Time	10ms for Computer Equipments ; 20ms for Home Appliances			
Dimensions (W*D*H)	385*195*565mm (Packaged)		702x257x753mm (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	
Safety Standard	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1			