

Single-phase Hybrid Inverter

SHH-5.5KW/8KW/11KW



SHH series is a pure sine wave grid-connected and off-grid inverter with high conversion efficiency and wide voltage range. It is applicable to various scenarios such as family, school and hospital.

- Power factor =1, high conversion efficiency, low system self-consumption
- Pure Sine Wave Output, Adaptable to Different Loads
- Support Lithium Battery Activation and Wake Up
- Parallel Operation Up to Maximum 9 Units, Enlarge More Loads
- UPS Transfer Time <10ms
- Real Time Display of Actual Load Power
- Multiple Working Mode: Photovoltaic/ Battery/AC Priority



Hybrid

5 Years
Design Life



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Technical Data

Model	SHH-5.5KW	SHH-8KW	SHH-11KW
Input Data			
PV Charging Mode	MPPT		
PV Max. Input Power	5500W	8000W	11000W
MPPT Input Voltage Range	120~500Vdc	90~500Vdc	90~500Vdc
Optimal Vmp Operating Range	300~400Vdc	300~400Vdc	300~400Vdc
Max. PV Input Voltage	500Vdc	500Vdc	500Vdc
Max. PV Input Current	20A	18A/18A	18A/18A
No.of MPPT Trackers	1	2	2
No.of Strings Per MPPT Tracker	1	1+1	1+1
Max. PV Charging Current	100A	120A	150A
Max. Grid Charging Current	60A	60A	60A
Max. Charging Current	100A	120A	150A
Input Format	L+N+PE		
Rated Charge Voltage	220/230/240VAC		
Voltage Range	90-280VAC±3V (Normal Mode) ; 170-280VAC±3V (UPS Mode)		
Frequency	50Hz / 60Hz (Self-adapting)		
Output Data			
Rated Power	5000W	8000W	11000W
Rated Output Voltage	220/230/240VAC±5%		
Rated Output Frequency	50/60Hz±0.1%		
Output Waveform	Pure Sine Wave		
Switching Time(Settable)	10ms (For Personal Computers) ; 20ms (For Home Appliances)		
Peak Power	10000VA	16000VA	22000W
Overload Capacity (Battery Mode)	21s@105%~150% Load;11s@150%~200% Load;400ms@>200% Load		
On-grid Data			
Output voltage	220/230/240VAC		
Voltage Range Fed into Grid	195-253VA		
Frequency Range Fed into Grid	49-51±1Hz/59-61±1Hz		
Nominal Output Current	21.7A	34.7A	47.8A
Power Factor	>0.99		
Max. Efficiency	98%		
Battery Data			
Rated Voltage	48Vdc	48Vdc	48Vdc
Constant Charge Voltage	56.4Vdc	56.4Vdc	56.4Vdc
Floating Charge Voltage	54Vdc	54Vdc	54Vdc
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	Yes		
General Data			
Operating Temperature	0~40°C		
Storage Temperature	-15°C~60°C		
Operating Humidity	20%~95% (Non-condensing)		
Altitude	≤1000m (Derate occurs when > 1000m, MAX 4000m, Refer to IEC62040)		
Noise	≤50dB		
Dimensions (D*W*H)	GA:495x312x125 GL:495x312x146	570.8x500x148.2mm	
Net Weight	Approx. 8.5kg	Approx. 9.0kg	
Safety Standard	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1		