

HS series 1KV to 5KVA solar hybrid inverter



Key features:

1. Pure sine wave inverter
2. Built-in MPPT or PWM solar charge controller
3. Selectable input voltage range for home appliances and personal computers
4. Selectable charging current based on applications
5. Configurable AC/Solar input priority via LCD setting
6. Compatible to mains voltage or generator power
7. Auto restart while AC is recovering
8. Overload and short circuit protection
9. Smart battery charger design for optimized battery performance
10. Cold start function

11. Parallel operation with up to 6 units only available for 4KVA/5KVA

12. Optional Remote Control Panel available

Technical specifications:

Rated power	1000VA/ 800W	1000VA/ 800W	2000VA/ 1600W	3000VA/ 2400W	3000VA/ 2400W	4000VA/ 3200W	5000VA/ 4000W
Input							
Voltage	120VAC or 230VAC		230VAC				
Selectable voltage range	95-140VAC or 170-280VAC(for personal computers) 65-140VAC or 90-280VAC(for home appliances)		170-280VAC(for personal computers) 90-280VAC(for home appliances)				
Frequency range	50Hz/60Hz(auto sensing)						
Output							
AC voltage regulation (battery mode)	110/120VAC+/-5%(user selectable) or 230VAC±5%		230VAC±5%				
Surge Power	2000VA		4000VA	6000VA		8000VA	10000V A
Efficiency (Peak)	90%-93%		93%				
Transfer time	10ms(for personal computers); 20ms(for home appliances)						
Waveform	Pure sine wave						
Battery&AC charger							
Battery voltage	DC24V	DC48V	DC24V		DC48V		
Floating charge voltage	DC27V	DC54V	DC27V		DC54V		
Overcharge protection	DC31V	DC62V	DC31V		DC62V	DC60V	
Solar charger&AC charger							
Maximum PV array power	600W	900W	600W		900W	3000W	
MPPT range @operating voltage	DC30V~66V	DC60V~88V	DC30V~66V		DC60V~88V	DC60V ~115V	
Maximum PV	DC75V	DC102V	DC75V		DC102VC	DC145V	

array open circuit voltage					
Maximum solar charge current	25A	20A	25A	20A	60A
Maximum AC charge current	20A	15A	30A	15A	30 A
Maximum charge current	25A	20A	30A	20A	60A
	AC charger and solar charger can't work at the same time				
Maximum efficiency	98%				
Standby power consumption	2W				
Physical					
Dimension,D xWxH (mm)	128x272x355				
Net weight (Kg)	7.4	7.6	8.0	12.5	13.5
Operating environment					
Humidity	5% to 95% relative humidity(non-condensing)				
Operating temperature	0°C-55°C				
Storage temperature	-15°C-60°C				

*Product specifications are subject to change without prior notice.

Rated power	1000VA/800 W	2000VA/160 0W	3000VA/240 0W	4000VA/320 0W	5000VA/400 0W
Input					
Voltage	230VAC				
Selectable voltage range	170-280VAC(for personal computers) 90-280VAC(for home appliances)				
Frequency range	50Hz/60Hz(auto sensing)				
Output					
AC voltage regulation (battery mode)	230VAC±5%				
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA
Efficiency (Peak)	90%-93%	93%			
Transfer time	10ms(for personal computers); 20ms(for home appliances)				
Waveform	Pure sine wave				
Battery&AC charger					
Battery voltage	DC12V	DC24V		DC48V	
Floating charge voltage	DC13.5V	DC27V		DC54V	
Overcharge protection	DC15V	DC30V		DC60V	
Solar charger&AC charger					
Maximum PV array open circuit voltage	DC30V	DC60V		DC90V	
Standby power consumption	1W	2W			
Maximum solar charge current	50A				
Maximum AC charge current	10A or 20A	20A or 30A		20A or 30A	

Physical				
Dimension, D xWxH (mm)	95X240X316	100x272x355		120x295x468
Net weight (Kg)	5.0	6.4	6.9	9.8
Operating environment				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating temperature	0°C-55°C			
Storage temperature	-15°C-60°C			

*Typical transfer time for parallel operation is 30ms.

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