



HES series

Solar Storage Inverter

(For Residential)

HES80SH3
HES100SH3

HES120SH3



Efficient

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 1000V PV input voltage, ideal for high power

User-friendly

- Industrial design with a modern aesthetic look
- Wall-mounted installation saves home space

All-in-one

- The 380V three-phase system is efficient, reliable and ideal for large equipment, providing energy and cost savings

Reliable

- Outputs high quality pure sine wave AC power
- IP65 protection degree for outside installation

Safety

- 360 degrees of security from hardware to software
- On-grid certification available

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

MODEL	HES80SH3	HES100SH3	HES120SH3	Can Be Set
INVERTER OUTPUT				
Rated Output and UPS Power	8000W	10000W	12000W	
Max. Output Power	8,800VA	11,000VA	13,200VA	
Peak Power(off grid)	2 times of rated power, 10 S			
Rated grid Output Current	11.5A	14.4A	17.3A	
Max. grid Output Current	12.7A	15.9A	19.1A	
Power Factor	0.8			
Rated AC Frequency	50/60Hz			
AC voltage range	380~415V			
Total Harmonic Current	THD<3% (Linear load<1.5%)			
Output mode	Off-grid (default) / On-grid / Hybrid			✓
BATTERY				
Battery Type	Lead-acid / Li-ion / User Defined			✓
Voltage Range	125~600Vdc			
Max. Charging Current	50A			✓
Max. Discharging Current	50A			✓
PV INPUT				
Num. of MPPT Trackers	2			
No. of Strings Per MPPT Tracker	1+1			
Max. DC Input Power	6000W+6000W	7500W+7500W	9000W+9000W	
Max. PV Input Voltage	500V+500V			
PV Input Current	15A+15A			
MPPT Voltage Range	180-850Vdc			
Min. PV Input Voltage/Start-up Voltage	125V/180V			
MAINS/GENERATOR INPUT				
Rated input Frequency and Voltage	50/60Hz, 3L+N+PE,220/380V;230/400V;240/415V			
Rated apparent power	16000W	20000W	24000W	
Max.input Rated apparent power from grid	13200W	17600W	22000W	
Max. grid Input Current	25.5A	31.9A	38.2A	
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Euro-eta	97.2%		97.5%	
Max.Efficiency	97.9%		98.3%	
GENERAL				
Dimensions	620*550*230mm			
Weight	35kg			
Protection Degree	IP65			
Operating Temperature Range	-15°C-55°C (°F-°F)			
Noise	≤30dB			
Warranty	5 years			
COMMUNICATION				
Embedded Interfaces	RS485 / CAN			✓
External Modules (Optional)	WiFi/GPRS			✓
CERTIFACATION				
Safety	IEC62109-1, IEC62109-2,CEI-021,VDE4105,VDE0124			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			