



HESP 6~8kW

Three-Phase Hybrid Solar Storage Inverter

- ☐ Compatible with 48V storage batteries
- ☐ Up to 2 independent MPPT interfaces with high efficiency
- ☐ Separate generator port
- ☐ Support three-phase pure sine wave output
- ☐ Support time-slot function for peak-valley
- ☐ IP65 waterproof protection degree

ABOUT SRNE

- ☐ SRNE 16 years in PV industry, committed to independent R&D and production.
- ☐ Holds over 200 patents in energy storage, with unique industry-leading technologies.
- ☐ Chooses top-quality international components to deliver high-value products to customers.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL	HESP4860SH3	HESP4880SHD3
AC OUTPUT (LOAD)		
Rated Output Power	6000W	8000W
Max. Peak Power	12000VA	16000VA
Rated Output Voltage	230/400Vac (three-Phase)	
Load Motor Capacity	6HP	
Rated Frequency	50/60Hz ± 0.3Hz	
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
AC OUTPUT (GRID)		
Rated Output Power	6000W	8000W
Max. Apparent Power	6600VA	8800VA
Power Factor	0.8 ahead, 0.8 behind	
Rated Voltage	3L/N/PE 230/400Vac	
Rated AC Frequency	50/60Hz	
Rated Output Current	8.7Aac	11.6Aac
THD	<3%	
BATTERY		
Battery Type	Li-ion / Lead-Acid / User Defined	
Rated Battery Voltage	48Vdc (Minimum Startup Voltage 44V)	
Battery Voltage Range	40~60Vdc	
Max. Grid /Generator Charging Current	100Adc	140Adc
Max. Hybrid Charging Current	150Adc	200Adc
PV INPUT		
No. of MPPT Trackers	2	
Max. PV Input Power	12000W	16000W
Max. PV Input Current	26Adc/ 26Adc	
Max. Short Circuit Current	35Adc	
Max. Open Circuit Voltage	800Vdc/800Vdc	
MPPT Voltage Range	200~650Vdc / 200~650Vdc	
GRID/GENERATOR INPUT		
Input Voltage Range	Phase voltage 170 to 280V; Line voltage 305 to 485V	
Input Frequency Range	50Hz / 60Hz	
Bypass Overload Current	45A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
European Efficiency	97.0%	

General Data			
Parallel Capacity	1~6 Units		
Dimensions	640*400*250mm (Hangers and connectors not included)	Humidity Range	0~100%
Weight	37.5kg	Cooling Method	Heat sink + intelligent fan cooling
Protection Level	IP65	Noise	<55dB
Temperature	-25 to +60℃, >45℃ Derate	Communication Port	RS485/CAN
		External Module	WIFI
Certificate	EN50549,VDE4105,IEC62109-1, IEC62109-2,IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, RoHS		
Protection			
PV lightning protection, anti-islanding protection, reverse connection protection for PV input, insulation resistance detection, leakage current detection, output overcurrent protection, output short-circuit protection			
Overvoltage Protection Level	AC type II/DC type III	Surge Protection	AC type II/DC type II