



HESP 4-6kW

Single-Phase Hybrid Solar Storage Inverter

- Compatible with 48V storage batteries
- 2 efficient, independent MPPT ports
- Separate generator port
- Support AC-coupling
- Support time-slot function for peak-valley
- IP65 waterproof protection degree



ABOUT SRNE

- SRNE 15 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.

Green Energy Changes the World

Model	HESP4840S100-H	HESP4846S100-H	HESP4850S100-H HESP4855S100-H	HESP4860S100-H
AC OUTPUT (LOAD)				
Rated Output Power	4,000W	4,600W	5,500W	6,000W
Max. Output Power	8,000VA	9,200VA	11,000VA	12,000VA
Rated Output Voltage	230Vac ±5% (Single-Phase L+N+PE)			
Load Motor Capacity	3HP	4HP		
Rated Frequency	50/60Hz ±0.3			
Switch Time	10ms (Typical)			
AC OUTPUT (GRID)				
Rated Output Power	4,000W	4,600W	5,500W	6,000W
Max. Output Power	8,000VA	9,200VA	11,000VA	12,000VA
Rated Output Current	17.4A	20A	24A	26A
Max. Output Current	19.1A	22A	26.4A	28.6A
Power Factor	0.8 leading/0.8 lagging			
THD	<3%			
BATTERY				
Battery Type	Lead-Acid / Li-ion / User-Define			
Rated Battery Voltage	48V			
Battery Voltage Range	40~60Vdc			
Max. Solar Charging Current	100A			
Max. Grid Charging Current	60A			
Max. Generator Charging Current	60A			
Max. Hybrid Charging Current	100A			
SOLAR INPUT				
No. Of MPPT	2			
Max. Input Power	3kW+3kW	3.5kW+3.5kW	4kW+4kW	4.5kW+4.5kW
Max. Input Current	16/16A			
Max. Short Circuit Current	27A/27A			
Max. Open Circuit Voltage	500Vdc+500Vdc			
MPPT Voltage Range	120~450Vdc			
GRID/GENERATOR INPUT				
Input Voltage Range	UPS mode: 170~280Vac; APL mode: 90~280Vac			
Input Frequency Range	50/60Hz			
Bypass Overload Current	40A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.5%			
European Efficiency	97%			
GENERAL DATA				
Parallel Capacity	1~6 Units (More than 3 units in parallel can form a three-phase output)			
Dimension	556*345*182mm	Humidity	0~100%	
Weight	20kg	Cooling Method	Fan Cooling	
Protection Degree	IP65	Warranty	5 years	
Temperature	-25~60°C, >45°C Derate	Communication	RS485/CAN/USB/Dry Contact	
External Module (Optional)	Wi-Fi/GPRS	Topology	Transformerless	
Certificate	EN50549-1,G99,NRS-097,VDE-ARN-4105,CEI021,UNE217002,IEC62109-1, IEC62109-2, EN61000-6-1,EN61000-6-3, FCC 15 class B,RoHS			
PROTECTION				
PV Reverse Protection	Yes	Anti-Islanding Protection	Yes	
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring	Yes	
Output Short-Circuit Protection	Yes	Output Over-Current Protection	Yes	
Over-Voltage Protection	AC type II/DC type III	Surge Protection	AC type II/DC type II	