



HESP

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 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	HESP4836S100-H		HESP4855S100-H	
AC OUTPUT (LOAD)				
Rated Output Power	3,600W		5,500W	
Max. Peak Power	7,200VA		11,000VA	
Rated Output Voltage	230Vac (Single phase) (200/208/220/240Vac settable)			
Load Motor Capacity	3HP		4HP	
Rated Frequency	50/60Hz ±0.3Hz			
Waveform	Pure Sine Wave			
Switch Time	10ms (typical)			
AC OUTPUT (GRID)				
Rated Output Power	3600W		5,500W	
Power Factor	08 leading to 0.8 lagging			
Rated Voltage	220/230Vac			
Rated AC Frequency	50/60Hz			
Rated AC Output Current	15.7Aac		24Aac	
THD	<3%			
BATTERY				
Battery Type	Li-ion / Lead-Acid / User Defined			
Rated Battery Voltage	48V			
Battery Voltage Range	40 ~ 60Vdc			
Max. Grid Charging Current	60Adc			
Max. Generator Charging Current	60Adc			
Max. Hybrid Charging Current	100Adc			
PV INPUT				
No. of MPPT Trackers	2			
Max. Usable PV Input Power	7,200W		8,000W	
Max. Recommended PV Array Size	10,500W			
Max. PV Input Current	16Adc (per tracker)			
Max. Short Circuit Current	27Adc (per tracker)			
Max. Open Circuit Voltage	500Vdc (MPPT Operating Voltage Range 120 ~ 450Vdc)			
GRID/GENERATOR INPUT				
Input Voltage Range	90 ~ 280Vac			
Input Frequency Range	50/60Hz			
Bypass Overload Current	40Aac			
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)			
Dimensions	556 x 345 x 182mm	Humidity	0 ~ 100%	
Weight	22.1kg	Cooling Method	Heat sink + intelligent cooling fan	
Protection Degree	IP65	Warranty	10 years	
Temperature	-25 to +60°C, >45°C Derate	Communication	RS485 / CAN / USB / Dry Contact	
External Modules	WiFi / GPRS	Noise	<60dB	
Certificate	G98, G98NI, G99, G99NI, EN50549-1, 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 II	Surge Protection	AC Type II / DC Type II	