



HESP 8kW

Single Phase Hybrid Solar Storage Inverter

- ☐ Designed for 48V energy storage batteries
- ☐ Ultra-wide MPPT operating voltage range
- ☐ 2x PV panel oversizing (16kW)
- ☐ Equipped with 2 high-efficiency independent MPPT interfaces
- ☐ Dedicated generator interface available
- ☐ Supports AC coupling applications, compatible with grid-tied inverters
- ☐ Supports time-of-use charge-discharge function
- ☐ IP65 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	HESP4880SD190-H	
AC OUTPUT		
Rated AC Output and UPS Power	8000W	
Max. AC Output Power	8800VA	
Max. Peak Power (Off-grid)	2 times of rated power 10S	
Rated grid Output Current	36.4A/34.8A	
Max. grid Output Current	40A/38.3A	
Grid Type	Single phase	
Waveform	Pure sine wave	
Rated Output Frequency	50/60Hz	
Rated Output Voltage	220/230Vac (L/N/PE)	
AC Voltage Range	220/230Vac	
THDI	<3%	
BATTERY INPUT		
Battery Type	Lead-Acid battery / Li-ion battery	
Rated Battery Voltage	48V	
Battery Voltage Range	40~60V	
Max. Charging Current	190A	
Max. PV Charge Current	190A	
Max. Discharging Current	190A	
Charging Curve	3 Stages / Equalization	
Charging Strategy for Li-Ion Battery	Self-adaption to RS485/CAN	
PV INPUT		
No. of MPPT Trackers	2	
PV Input Current	32A+32A	
Max. DC Input Power	16kW	
Max. PV Input Voltage	600V	
Min. PV Input Voltage/Start-up Voltage	100V	
MPPT Voltage Range	120~500V	
GRID/GENERATOR INPUT		
Rated Input Frequency	50/60Hz	
Rated Input Voltage	220/230Vac (L/N/PE)	
AC Voltage Range	Single phase voltage: 0.85Un~1.1Un	
EFFICIENCY		
MPPT Tracking Efficiency	>99%	
Max. Efficiency	97.6%	
European Efficiency	96.5%	

GENERAL DATA			
Parallel Capacity	1~6 Units (More than 3 units in parallel can form a three-phase output)		
Dimension	365x630x243mm	Installation	Outdoors ,Wall-mounted
Weight	32kg	Communication	RS485/ CAN
Operating Temperature Range	-25 °C~60°C, >45°C Derating	Warranty	5 years
Storage Temperature Range	-25 °C~60°C	Protection Degree	IP65
Certificate	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3		
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	DC type II/AC type III	Surge Protection	DC type II/AC type II