



HESP 8-12kW

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.

Model		HESP48120S200-H	
AC OUTPUT (LOAD)			
Rated Output Power	12,000W		
Max. Output Power	24,000VA		
Rated Output Voltage	230Vac ±5% (Single-Phase L+N+PE)		
Load Motor Capacity	6HP		
Rated Frequency	50/60Hz ±0.3		
Switch Time	10ms (typical)		
AC OUTPUT (GRID)			
Rated Output Power	12,000W		
Max. Output Power	12,000VA		
Rated Output Current	52.2A		
Max. Output Current	54.4A		
Power Factor	0.8 leading/0.8 lagging		
THD	<3%		
BATTERY			
Battery Type	Lead-Acid / Li-ion / User-Define		
Rated Battery Voltage	48V		
Battery Volatge Range	40~60Vdc		
Max. Solar Charging Current	200A		
Max. Generator Charging Current	60A		
Max. Grid Charging Current	120A		
Max. Hybrid Charging Current	200A		
SOLAR INPUT			
No. Of MPPT	2		
Max. Input Power	6.6kW+6.6kW		
Max. Input Current	22/22A		
Max. Short Circuit Current	37A/37A		
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	63A		
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	670*440*220mm	Humidity	0~100%
Weight	37kg	Cooling Method	Fan Cooling
Protection Degree	IP65		
Temperature	-25~60°C, >45°C Derate	Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi/GPRS	Topology	Transformerless
Certificate	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