

HESP 12kW

Three-Phase Hybrid Solar Storage Inverter

- ☐ Compatible with 48Vstorage batteries
- ☐ 2 efficient, independent MPPT ports
- ☐ Separate generator port
- ☐ Support three-phase pure sine wave output
- ☐ Support time-slot function for peak-valley
- ☐ IP65 waterproof protection degree

ABOUT SRNE

- $\hfill \square$ 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.
- $\hfill \Box$ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

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MODEL		HESP48120SH3		
AC OUTPUT				
Rated Output Power		12,000W		
Max. Output Power		24,000VA		
Rated Output Voltage		230/400Vac (three-Phase)		
Load Motor Capacity		6HP		
Rated Frequency		50/60Hz ±0.3		
Switch Time		10ms (typical)		
BATTERY		,		
Battery Type		Li-ion / Lead-Acid / User Defined		
Rated Battery Voltage		48V		
Battery Volatge Range		40~60Vdc		
Max. Grid/Generator Charging C	urrent	120A		
Max. Hybrid Charging Current		260A		
Max. Discharge Current		260A		
SOLAR INPUT		200, (
No. Of MPPT		2		
Max. Input Power		9,000W+9,000W		
Max. Input Current		22A+22A		
Max. Open Circuit Voltage		800Vdc+800Vdc		
MPPT Voltage Range		200-650Vdc/200-650Vdc		
GRID/GENERATOR INPUT		200 000 (40, 200 000)	40	
Input Voltage Range		Phase voltage 170~280V, Line voltage	ge 305~485V	
Input Frequency Range		50/60Hz		
Bypass Overload Current		35A		
EFFICIENCY				
MPPT Tracking Efficiency		99.9%		
Max. Efficiency		≥92%		
European Efficiency		97.5%		
GENERAL DATA				
Parallel Capacity		1∼6 Units		
Dimension	700*440*260mm	Humidity	0~100%	
Weight	39.2kg	Cooling Method	Heat sink + intelligent fan cooling	
Protection Degree		Cooling Method	Treat Sink + intelligent fair cooling	
Temperature	-25~60°C, >45°C Derate	Communication	RS485/CAN/USB/Dry Contac	
External Module (Optional)	Wi-Fi/GPRS	Topology	Transformerless	
External Module (Optional)	WI-I I/ OI TIO	Торогоду	Transformeness	
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	DC type II/AC type III	Surge Protection	DC type II/AC type II	

With PV input current / power limiting protection, Anti-reverse charge protection at night, AC input over-voltage protection, AC input under-voltage protection, Battery over-current protection, AC output short-circuit protection, Heat sink over- temperature protection, Inverter over-load protection, AC output reverse, Bypass over-current protection, Bypass phase inconsistency protection.