



HF 5kW

Single-Phase off-grid Solar Storage Inverter

- ☐ Compatible with 48V storage batteries
- ☐ Multiple charging and on-load modes to maximise energy use
- ☐ Efficient heat dissipation, prolonging system life
- ☐ Support remote monitoring of equipment operating parameters



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		HF4850S80-H	
INVERTER OUTPUT			
Rated Output Power	5,000W		
Max.Peak Power	10,000VA		
Rated Output Voltage	230Vac (Single-Phase)		
Load Motor Capacity	4HP		
Rated Frequency	50/60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
BATTERY			
Battery Type	Lead-Acid / Li-ion / User-Define		
Rated Battery Voltage	48V		
Battery Volatge Range	40~60Vdc		
Max. Solar Charging Current	80A		
Max. Grid/Generator Charging Current	60A		
Max. Hybrid Charging Current	80A		
SOLAR INPUT			
No. Of MPPT	1		
Max.PV Array Power	5,500W		
Max. Input Current	22A		
Max. Open Circuit Voltage	500Vdc		
MPPT Voltage Range	120~450Vdc		
GRID/GENERATOR INPUT			
Input Voltage Range	170~280Vac		
Input Frequency Range	50/60Hz		
Bypass Overload Current	40A		
EFFICIENCY			
MPPT Tracking Efficiency	99.9%		
Max. Efficiency	92%		
GENERAL DATA			
Dimension	426*322*126mm	Moisture	0~100%
Weight	10.9kg	Cooling Method	Fan Cooling
Protection Degree	IP20 Only Indoor	Warranty	2 years
Temperature	-10℃~55℃	Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi/GPRS	Topology	Transformerless
Certificate	RoHs/EN61000/FCC Part15 ClassB/IEC 62109/IEC 62040/IEC 62477/SAA/cETL UL1741 & CSA C22.2/PSE Circular Certification		
PROTECTION			

Equipped with PV current limit and power limit protection, PV night anti-reverse charging protection, utility input over-voltage protection, utility input under-voltage protection, battery over-voltage protection, battery under-voltage protection, load output short-circuit protection, radiator over-temperature protection, over-load protection, PV anti-reverse protection, AC back-filling protection, bypass overcurrent protection, battery input overcurrent protection, battery input protection, charging short-circuit protection,.