



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		HF4850U80-H	
INVERTER OUTPUT			
Rated Output Power		5,000W	
Max.Peak Power		10,000VA	
Rated Output Voltage		120Vac (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		40Vdc~60Vdc	
Max. Solar Charging Current		80A	
Max. Grid/Generator Charging Current		40A	
Max. Hybrid Charging Current		80A	
SOLAR INPUT			
No. Of MPPT		1	
Max.PV Array Power		5,200W	
Max. Input Current		18A	
Max. Open Circuit Voltage		500Vdc	
MPPT Voltage Range		120~450Vdc	
GRID/GENERATOR INPUT			
Input Voltage Range		90~140Vac	
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	5%~95%
Weight	11.6kg	Cooling Method	Fan Cooling
Protection Degree	IP20 Only Indoor	Warranty	1 year
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,.