



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	2 years
Temperature	-10°C~55°C	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,.			