



AFP 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 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.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL	AFP4850S100-H		
INVERTER OUTPUT			
Rated Output Power	5000W		
Max. Peak Power	10000VA		
Rated Output Voltage	230Vac		
Load Motor Capacity	4HP		
Rated Frequency	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
BATTERY			
Battery Type	Li-ion / Lead-acid		
Rated Battery Voltage	48V		
Battery Volatge Range	40~58Vdc		
Max. Grid/Generator Charging Current	80A		
Max. Hybrid Charging Current	100A		
SOLAR INPUT			
No. of MPPT Trackers	1		
Max. PV Input Power	7500W		
Max. Input Current	30A		
Max. Open Circuit Voltage	500Vdc		
MPPT Voltage Range	60~450Vdc		
GRID/GENERATOR INPUT			
Input Voltage Range	90Vac~280Vac (±2%)		
Input Frequency Range	50Hz/60Hz (Automatic detection)		
Bypass Overload Current	40A		
EFFICIENCY			
MPPT Tracking Efficiency	99.9%		
Max. Efficiency	>92%		

GENERAL DATA			
Parallel Capacity	1~6 Units (More than 3 units in parallel can form a three-phase output)		
Dimension	359.5*290.2*133mm	Humidity Range	5% to 95% (Protected by three-proof paint)
Weight	8.5 kg	Heat Dissipation	Forced air cooling with adjustable air speed
Protection Degree	IP20 Only Indoor	Warranty	2 years
Temperature	-15°C~55°C, >45°C Derating	Communication	USB/RS485/WiFi/Dry Control
Noise	\leq 60dB		
Certificate	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC 15 class B		

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.