



AFP 5kW

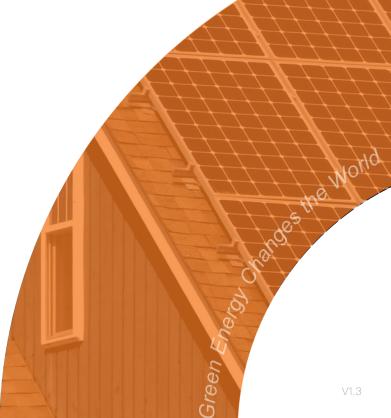
Single-Phase off-grid Solar Storage Inverter

- ☐ 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

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

SRNE Solar Co,.ltd. www.srnesolar.com





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 Vine 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 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%	MODEL	AFP4850S100-H		
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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 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 1 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 99.9%	Rated Output Power	5000W		
Load Motor Capacity 4HP Rated Frequency 50Hz ± 0.3Hz/60Hz ± 0.3Hz Waveform Pure sine wave Switch Time 10ms (typical) BATTERY Battery Woltage 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 1 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 99.9%	Max. Peak Power	10000VA		
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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%	Switch Time	10ms (typical)		
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Max. Grid/Generator Charging Current Max. Hybrid Charging Current No. of MPPT Trackers 1 Max. PV Input Power Max. Input Current Max. Open Circuit Voltage MPPT Voltage Range 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%	Rated Battery Voltage	48V		
Max. Hybrid Charging Current 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%	Battery Volatge Range	40~58Vdc		
SOLAR INPUT No. of MPPT Trackers 1 Max. PV Input Power 7500W Max. Input Current 30A Max. Open Circuit Voltage 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. Grid/Generator Charging Current	80A		
No. of MPPT Trackers Max. PV Input Power Max. Input Current Max. Open Circuit Voltage Max. Open Circuit Voltage MPPT Voltage Range G0~450Vdc 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. Hybrid Charging Current	100A		
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%	SOLAR INPUT			
Max. Input Current Max. Open Circuit Voltage MPPT Voltage Range MPPT Voltage Range GO~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%	No. of MPPT Trackers	1		
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. PV Input Power	7500W		
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. Input Current	30A		
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. Open Circuit Voltage	500Vdc		
Input Voltage Range 90Vac~280Vac (±2%) Input Frequency Range 50Hz/60Hz (Automatic detection) Bypass Overload Current 40A EFFICIENCY MPPT Tracking Efficiency 99.9%	MPPT Voltage Range	60~450Vdc		
Input Frequency Range 50Hz/60Hz (Automatic detection) Bypass Overload Current 40A EFFICIENCY MPPT Tracking Efficiency 99.9%	GRID/GENERATOR INPUT			
Bypass Overload Current 40A EFFICIENCY MPPT Tracking Efficiency 99.9%	Input Voltage Range	90Vac~280Vac (±2%)		
EFFICIENCY MPPT Tracking Efficiency 99.9%	Input Frequency Range	50Hz/60Hz (Automatic detection)		
MPPT Tracking Efficiency 99.9%	Bypass Overload Current	40A		
•	EFFICIENCY			
Max. Efficiency >92%	MPPT Tracking Efficiency	99.9%		
1	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		
Temperature	-15°C∼55°C, >45°C Derating	Communication	USB/RS485/WiFi/Dry Control
Noise	≤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, charging short-circuit protection.