



AEP 6kW

Single-Phase Off-grid Solar Storage Inverter

- 2 High-Efficiency MPPT Input, efficiency up to 99.9%
- Max. Input Current per MPPT 22A
- Max. support for 6 units parallel
- 2 power supply modes: PV-only, hybrid charging
- Support time-sharing charge and discharge function
- HOME LOAD mode, supports external load anti-backflow function
- Energy-saving mode reduce no-load energy loss
- Dual activation function for lithium batteries
- Generator port with independent design and smart load compatibility
- Generator peak-shaving function to effectively reduce diesel generator load pressure
- Large LCD screen with dynamic flow chart design
- Rated IP65, suitable for outdoor use

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		AEP4860S135-H	
AC Output			
Rated Output Power	6000W		
Max. Peak Power	2 times of rated power,10s		
Rated Output Voltage	230Vac (200/208/220/230/240Vac Settable)		
Rated Output Current	26.1Aac		
Rated Frequency	50Hz / 60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (Typical)		
Battery			
Battery Type	Lithium-ion Battery / Lead-acid Battery / User-defined Battery		
Rated Battery Voltage	48Vdc		
Battery Voltage Range	40Vdc ~ 60Vdc		
Max. Discharging Current	135Aac		
Max. Grid/Generator Charging Current	135Aac		
Max. PV Charging Current	135Aac		
PV Input			
No. of MPPT Trackers	2		
Max. Access Power	12000W		
Max. PV Input Power	6000W + 6000W		
Max. PV Input Current	22Aac + 22Aac		
Max. Input Short-Circuit Current	33Aac + 33Aac		
Max. Input Voltage	500Vdc / 500Vdc		
PV Start-up Voltage	60Vdc / 60Vdc		
MPPT Operating Voltage Range	65Vdc ~ 450Vdc / 65Vdc ~ 450Vdc		
Grid/Generator Input			
Rated Input Voltage	220Vac / 230Vac		
Input Voltage Range	(170Vac ~ 280Vac) ±2%		
Input Frequency Range	50Hz : 47Hz ~ 55Hz, with ±0.3Hz accuracy 60Hz : 57Hz ~ 65Hz, with ±0.3Hz accuracy		
Bypass Overload Current	40Aac		
Efficiency			
MPPT Tracking Efficiency	99.9%		
Max. Efficiency	97.5%		

GENERAL DATA			
Parallel Capacity	1~6 Units		
Dimension	300x460x217.5mm	Cooling Method	Heat sink + intelligent air cooling
Weight	17.5kg	Warranty	5 years
Protection Degree	IP65	Built-in Interface	RS485/CAN/USB/Dry Contact
Temperature	-40 ~ 60°C, >45°C Derated	External Module	WiFi (Optional)
Noise	<55dB		
Certificate	RoHs, IEC 62109-1/-2, EN 61000		

PROTECTION

Has PV input current limiting protection、PV input over-voltage、PV night reverse current protection、AC input over-voltage protection、AC input under-voltage protection、Battery over-voltage protection、Battery under-voltage protection、Battery over-current protection、AC output short-circuit protection、Heat sink over-temperature protection、Inverter over-load protection.