



ASP 16~20kW

Three-Phase Off-Grid Solar Storage Inverter

- 2+2 High-Efficiency MPPT Input, efficiency up to 99.9%
- Max. Input Current per MPPT 36A
- 2x Rated Power Input (Grid/Generator)
- Max. 60A Bypass Current Input (Grid/Generator)
- Single-phase overload up to 150%
- Max. support for 6 units parallel, Scalable to 120kW for commercial applications
- No Neutral Connection Required
- 2 power supply modes: PV-only, hybrid charging
- External Load Anti-Backflow Protection
- Dual activation function for lithium batteries
- Generator Port with Smart Load Compatibility
- Three-phase pure sine wave output
- Time-Sharing Charging/Discharging Settings & Energy-Saving Mode
- Independent generator interface

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	ASP48160SH3	ASP48180SH3	ASP48200SH3
AC OUTPUT			
Rated AC Output Power	16000W	18000W	20000W
Max. AC Output Power	17600VA	19800VA	22000VA
Rated AC Output Current	23.2A	26.0A	29.0A
Rated Output Frequency	50/60Hz		
Rated Output Voltage	230/400Vac (Three-Phase)		
Output Voltage Range	230/400Vac ± 5%		
BATTERY			
Battery Type	Lead-Acid Battery / Lithium-Ion Battery / User Defined		
Rated Battery Voltage	48V		
Battery Voltage Range	40~60V		
Max. PV Charging Current	300A	360A	360A
Max. Grid/Generator Charging Current	300A	360A	360A
Max. Charging/Discharging Current	300A	360A	360A
Charging Curve	3 Stages / Equalization		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV INPUT			
No. of MPPT Trackers	2		
Max. PV Input Power	15kW+15kW	15kW+15kW	15kW+15kW
Input Current	36A/36A	36A/36A	36A/36A
Min. PV Input Voltage / Start-up Voltage	160V		
Max. PV Input Voltage	1000V		
MPPT Operating Voltage Range	160~800V		
GRID/GENERATOR INPUT			
Rated Input Frequency	50/60Hz		
Rated Input Voltage	230/400Vac (Three-Phase)		
AC Voltage Range	Phase Voltage 170~280Vac; Line Voltage 305~485Vac		
Bypass Overload Current	60A		
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max. Efficiency	97.6%		

BASIC DATA			
Parallel Capacity	1~6 units		
Dimensions (W × H × D)	593.4x803.4x215mm	Cooling Method	Air Cooling
Weight	50kg	Operating Temperature	-10~55°C, >45°C Derate
Protection Degree	IP20	Communication Interface	RS485/CAN/WI-FI
External Modules (Optional)	Wi-Fi/4G Stick		
Certification	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, RoHS		
Protection Functions			

With PV input current / power limiting protection, PV input over-voltage, Anti-reverse charge protection at night, 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, AC output reverse, Bypass over-current protection, Bypass phase inconsistency protection.