



ASP 14-16kW

Split-Phase Off-grid Solar Storage Inverter



- ☐ Compatible with 48V storage batteries
- ☐ 2 High-Efficiency MPPT Input, efficiency up to 99%
- ☐ Max. Input Current per MPPT 36A
- ☐ Max. 100A Bypass Current Input (Grid)
- ☐ Support 130% unbalanced load
- ☐ Max. support for 6 units parallel, Scalable to 96kW for commercial applications
- ☐ 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
- ☐ Time-Sharing Charging/Discharging Settings & Energy-Saving Mode
- ☐ WiFi data loggers, RSD, AFCI, and GFCI function
- ☐ 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	ASP48140U300-H	ASP48150U300-H	ASP48160U300-H
INVERTER OUTPUT			
Rated Output Power	14000W	15000W	16000W
Max. Peak Power	2 times rated power, 10s		
Max. Apparent Power	14000VA	15000VA	16000VA
Rated Output Voltage	120Vac/240Vac (L1+L2+N+PE)		
Rated Output Current	58.3Aac	62.5Aac	66.7Aac
Load Motor Capacity	9HP		
Rated AC Frequency	50/60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
BATTERY			
Battery Type	Li-ion / Lead-acid / User-defined		
Rated Battery Voltage	48Vdc		
Battery Volatge Range	40Vdc~60Vdc		
Max. Grid/Generator Charging Current	300Adc	300Adc	300Adc
Max. Charging/Discharging Current	300Adc	300Adc	300Adc
SOLAR INPUT			
No. Of MPPT	2		
Max. PV Input Power	12000W + 12000W		
Max. PV Input Current	36Adc + 36Adc		
PV Short-circuit Current	50Adc + 50Adc		
PV Start-up Voltage	90Vdc / 90Vdc		
Max. PV Open-Circuit Voltage	600Vdc / 600Vdc		
MPPT Operating Voltage Range	120Vdc~550Vdc / 120Vdc~550Vdc		
GRID/GENERATOR INPUT			
Rated Input Voltage	120Vac/240Vac (L1+L2+N+PE)		
Input Voltage Range	85Vac~140Vac / 170Vac~280Vac		
Rated Input Frequency	50Hz/60Hz		
Bypass Overload Current (Grid)	100A		
Bypass Overload Current (Generator)	58.3Aac	62.5Aac	66.7A
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max. Inverter Efficiency	94.3%		
Max. Charging Efficiency	93.4%		

GENERAL DATA			
Parallel Capacity	1~6 Units		
Dimension	20.24×33.39×8.46 in	Altitude	2000m (78740 in)
Weight	47.5kg (≈105 lbs)	Cooling Method	Intelligent Air Cooling
Protection Degree	IP20 Indoor Only	Warranty	2 years
Temperature	14~131°F, >113°F Derated	Communication	RS485/CAN/USB/Dry Contact
Noise	<60dB	External Module (Optional)	Wi-Fi/4G Stick
Certificate	IEC62109-1, IEC62109-2, UL1741, EN61000-6-1, EN61000-6-3, FCC 15 class B		

PROTECTION			
Has PV Current Limiting Protection, PV Overvoltage Protection, Night Anti – backcharging Protection, Mains Input Overvoltage Protection, Mains Input Undervoltage Protection, Battery Overvoltage Protection, Battery Undervoltage Protection, Battery Overcurrent Protection, AC Output Short – circuit Protection, Heat Sink Overtemperature Protection, Overload Protection, AC Backfeed Protection, Bypass Overcurrent Protection, Bypass Wiring Error Protection, Arc Fault Protection, Leakage Current Protection, Rapid Shutdown Signal Generator (Optional)			