



HESP 15~18kW

Three-Phase Hybrid Solar Storage Inverter

- ☐ Compatible with 48V storage batteries.
- ☐ 3 efficient, independent MPPT ports.
- ☐ Up to 9 units can be connected in parallel.
- ☐ Capable of 110% unbalanced load output for single – phase loads.
- ☐ Separate generator port.
- ☐ Support three-phase pure sine wave output.
- ☐ Support time-slot function for peak-valley.
- ☐ IP65 waterproof protection degree.
- ☐ Standard configuration includes three activation modes: utility, PV, and generator, ensuring reliable startup.
- ☐ Supports 120/208/120V unbalanced three-phase grid connection.



ABOUT SRNE

- ☐ SRNE 17 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	HESP48150UBH3	HESP48160UBH3	HESP48180UBH3
AC Output			
Rated Output Power	15000W	16000W	18000W
Max. Output Power	16500W	17600W	19800W
Max. Peak Power	30000W	32000W	36000W
Rated Output Voltage	230/400VAC three-Phase		
Rated Frequency	50/60Hz ±0.3Hz		
Switching Time	10ms (typical)		
Battery			
Battery Type	Li-ion / Lead-Acid / User Defined		
No. of Battery Input Ports	2		
Rated Battery Voltage	48V		
Battery Voltage Range	40~60Vdc		
Max. Grid/Generator Charging Current	300Adc	330Adc	350Adc
Max. Hybrid Charging Current	300Adc	330Adc	350Adc
Max. Discharge Current	300Adc	330Adc	350Adc
PV Input			
No. of MPPT Trackers	3		
No. of Strings MPP Tracker	1+1+1		
Max. PV Input Power	24000W	25600W	28800W
Max. PV Input Current	26A+26A+26A		
Max. Short-Circuit Current	45A+45A+45A		
Max. Open Circuit Voltage	850V/850V/850V		
Start-up Voltage	150V/150V/150V		
MPPT Operating Voltage Range	160V-680V/160V-680V/160V-680V		
Rated PV Input Voltage	500V/500V/500V		
Grid/Generator Input			
Input Voltage Range	Phase voltage 100-133V(L1与L3)/170-230V(L2), Line voltage 200-266V		
Input Frequency Range	50/60Hz		
Bypass Overload Current	70Aac		
Efficiency			
MPPT Tracking Efficiency	>99%		
Max. Efficiency	97.5%		
CEC Efficiency	95.2%	95.2%	95.2%

General Data			
Parallel Capacity	1~9 Units		
Cabinet Size	40.94 * 24.41 * 18.31 in	Warranty	5 years
Weight (kg)	141.7 lbs	Cooling Method	Heat sink + intelligent fan cooling
Protection Degree	IP65	External Module (Optional)	WIFI / 4G Stick
Operating Temperature	−40°F−140°F, >113°F Derating	Communication	RS485/CAN/USB/ Dry Contact
Humidity	0~100%	Overvoltage Protection Category	DC type II/AC type II
Surge Protection	DC type II/AC type II		
Certificate	UL 1741–2021 (UL1741SB), CSA C22.2 No 107.1–16, IEC62109–1, IEC62109–2, EN61000–6–1, EN61000–6–3, FCC 15 class B		
Equipment Protection			

PV Lightning Protection, PV Reverse Polarity Protection, Anti - islanding Protection, Insulation Resistance Detection (ISO), Ground Fault Current Interrupter Detection (GFCI), AC Output Over - current Protection, Inverter Output Short - circuit Protection, Over - temperature Protection, RSD (Rapid Shutdown Device) Quick Shutdown, DC Arc Fault Circuit Interrupter Protection (AFCI), DC Input Switch Protection.