



HESP-HUS **4-6.5kW**

Split-phase Hybrid Solar Storage Inverter

- ☐ 2 efficient, independent MPPT ports
- ☐ Separate generator port
- ☐ Equipped with independent circuit breaker protection for load, mains, generator, and battery
- ☐ Supports 150% single-phase unbalanced load
- ☐ Support time-slot function for peak-valley
- ☐ IP65 waterproof protection degree

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	HESP4840U120-HUS	HESP4850U120-HUS	HESP4860U140-HUS	HESP4865U140-HUS
AC OUTPUT (LOAD)				
Rated Output Power	4000W	5000W	6000W	6500W
Single-phase Unbalanced Load	4000W	4500W	4500W	4500W
Max. Peak Power	2× rated power for 10 seconds			
Rated Output Voltage	120/240Vac (Split-phase); 120/208Vac (Three-phase)			
Rated Output Current	16.6A @240V 19.2A @208V	20.9A @240V 24A @208V	25A @240V 28.8A @208V	27.1A @240V 31.3A @208V
Rated Frequency	50/60Hz			
Waveform	Pure sine wave			
AC OUTPUT (GRID)				
Rated Output Power	4000W	5000W	6000W	6500W
Max. Apparent Power	4400VA	5500VA	6600VA	7000VA
Rated Output Current	16.6A @240V 19.2A @208V	20.9A @240V 24A @208V	25A @240V 28.8A @208V	27.1A @240V 31.3A @208V
Power Factor	0.99 (0.8 Leading / 0.8 Lagging)			
THD	<3%			
BATTERY				
Battery Type	Lithium-ion Battery / Lead-acid Battery / User-defined			
Rated Battery Voltage	48Vdc			
Battery Voltage Range	40~60Vdc			
Max. Grid/Generator Charging Current	120Adc	120Adc	140Adc	140Adc
Max. Charging/Discharging Current	120Adc	120Adc	140Adc	140Adc
PV INPUT				
No. of MPPT Trackers	2			
Max. PV Input Power	6000W + 6000W			
Max. PV Input Current	32Adc + 32Adc			
Max. Open Circuit Voltage	600Vdc / 600Vdc			
MPPT Operating Voltage Range	120~500Vdc / 120~500Vdc			
GRID/GENERATOR INPUT				
Rated Input Phase Voltage	120Vac			
Input Phase Voltage Range	65~140Vac			
Input Frequency Range	50/60Hz			
Bypass Phase Current	60Aac			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.6%			
CEC Efficiency	96.5%			

GENERAL DATA			
Parallel Capacity	1–6 units (3–phase output available with 2 or more units)		
Dimension	400x760x250mm	Humidity Range	0~100%
Weight	42kG	Cooling Method	Intelligent air cooling + heat sink
Protection Degree	IP65	Noise	<60dB
Operating Temperature	–40~60°C, >45°C Derated	Communication Interface	RS485/CAN/USB/Dry Contact
Warranty	1 year	External Modules	Wi-Fi/GPRS (Optional)
Certificate	IEC 62109–1/–2 EN 61000, RoHS		

PROTECTION			
Anti-Islanding Protection	Yes	Anti-Islanding Protection	Yes
Insulation Resistance Monitoring	Yes	Insulation Resistance Monitoring	Yes
Output Over-Current Protection	Yes	Output Over-Current Protection	Yes
Over-Voltage Protection	AC type III /DC type II	Surge Protection	AC type II/DC type II