



HESP series

Hybrid Solar Inverter

HESP4860S100-H



Efficient

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22A PV input current perfect for high power

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Solar Charger Controller up to 100A charging current
- Support for Li-ion battery BMS communication

Reliable

- Outputs high quality pure sine wave AC power
- IP65 protection degree for outside installation

Safety

- 360 degrees of security from hardware to software
- EU and North American safety approvals

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

MODEL	HESP4860S100-H	CAN BE SET
INVERTER OUTPUT		
Rated Output Power	6000W	
Max.Peak Power	12,000VA	
Rated Output Voltage	230Vac	✓
Load Capacity of Motors	4HP	
Rated AC Frequency	50/60Hz	
Total Harmonic Current	< 3%	
Power Factor	1	
Permitted parallel number	1~6(single-phase / three-phase)	
Switch Time	10ms (typical)	
Output mode	Off-grid (default) / On-grid / Hybrid	
BATTERY		
Battery Type	Lead-acid / Li-ion / User Defined	✓
Rated Battery Voltage	48V(minimum starting voltage 44V)	
Voltage Range	40~58Vdc	
Max.MPPT Charging Current	80A	✓
Max.Mains/Generator Charging Current	60A	✓
Max.Hybrid Charging Current	100A	✓
PV INPUT		
Num. of MPPT Trackers	1	
Max.PV Array Power	6600W	
Max.Input Current	22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	120~450Vdc	
MAINS/GENERATOR INPUT		
Input Voltage Range	UPS mode: 170~280Vac; APL mode: 90~280Vac	✓
Frequency Range	50/60Hz	
Maximum bypass overload current	40A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max.Efficiency	92%	
GENERAL		
Dimensions	556*345*182mm (1.82*1.13*0.60ft)	
Weight	19.2kg (42.3lb)	
Protection Degree	IP65	
Operating Temperature Range	Operating: -25~55°C,>45°C derated ; Storage: -25~60°C	
Noise	≤60dB	
Humidity range	0% ~ 100%	
Cooling Method	Forced air cooling, variable speed of fan	
Warranty	5 years	
COMMUNICATION		
Embedded Interfaces	RS485 / CAN / USB / Dry contact	✓
External Modules (Optional)	Wi-Fi	
CERTIFICATION		
Safety	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
Rohs	Yes	