



HES series

Hybrid Solar Inverter

HF4840S100-H
HF4850S100-H

HF4860S100-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	HES4840S100-H	HES4850S100-H	HES4860S100-H	CAN BE SET
INVERTER OUTPUT				
Rated Output Power	4,000W	5,000W	6,000W	
Max.Peak Power	8,000VA	10,000VA	12,000VA	
Rated Output Voltage	230Vac			✓
Load Capacity of Motors	4HP			
Rated AC Frequency	50/60Hz			✓
Waveform	pure sine wave			
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			
Voltage Range	40~60Vdc			✓
Max.MPPT Charging Current	100A			✓
Max.Mains/Generator Charging Current	60A			✓
Max.Hybrid Charging Current	100A			✓
PV INPUT				
Num. of MPPT Trackers	1			
Max.PV Array Power	4,500W	5,500W	6,600W	
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			
Bypass Overload Current	40A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	>90%			
GENERAL				
Dimensions	556*345*182mm			
Weight	19.2kg			
Protection Degree	IP65			
Operating Temperature Range	-25~55°C,>45°C derated			
Humidity	0~100%			
Cooling Method	Internal Fan			
Warranty	5 years			
COMMUNICATION				
Embedded Interfaces	RS485 / CAN / USB / Dry contact			✓
External Modules (Optional)	Wi-Fi / GPRS			✓
CERTIFACATION				
Safety	IEC62109, CEI 0-21:2022, VDE0124, VDE4105			
EMC	EN61000,FCC part 15			
Rohs	Yes			