



HES series

Hybrid Solar Inverter

HES4880S200-H HES48120S200-H
 HES48100S200-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	HES4880S200-H	HES48100S200-H	HES48120S200-H	CAN BE SET
INVERTER OUTPUT				
Rated Output Power	8800W	10000W	12000W	
Max.Peak Power	17,600VA	20,000VA	24,000VA	
Rated Output Voltage	230Vac (single-phase)			✓
Load Capacity of Motors	5HP	6HP		
Rated AC Frequency	50/60Hz			✓
Waveform	pure sine wave			
Switch Time	10ms (typical)			
BATTERY				
Battery Type	Lead-acid / Li-ion / User Defined			✓
Rated Battery Voltage	48V			
Voltage Range	40~60Vdc			✓
Max.MPPT Charging Current	200A			✓
Max.Mains/Generator Charging Current	120A			✓
Max.Hybrid Charging Current	200A			✓
PV INPUT				
Num. of MPPT Trackers	2			
Max.PV Array Power	11000W	13000W		
Max.Input Current	22/22A			
Max.Voltage of Open Circuit	500Vdc			
MPPT Voltage Range	125~425Vdc			
MAINS/GENERATOR INPUT				
Input Voltage Range	90~275Vac			
Frequency Range	50/60Hz			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max.Efficiency	97.5%			
European Efficiency	97%			
GENERAL				
Dimensions	700*440*240mm			
Weight	37kg			
Protection Degree	IP65			
Operating Temperature Range	-25~60°C, >45°C derated			
Noise	<60dB			
Cooling Method	Internal Fan			
Warranty	5 years			
COMMUNICATION				
Embedded Interfaces	RS485 / CAN / USB / Dry contact			✓
External Modules (Optional)	Wi-Fi / GPRS			✓
CERTIFACATION				
Safety	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			
Rohs	Yes			