HES series

Hybrid Solar Inverter

HES4880U200–H   HES48120U200–H
HES48100U200–H

HOT ★★★ **BEST QUALITY**

| 240V | 48V | 8~12kW | 500V | IP65 |

Efficient

- Advanced MPPT technolgoty 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 200A 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

1.1

MODEL	HES4880U200–H	HES48100U200–H	HES48120U200–H	CAN BE SET
INVERTER OUTPUT				
Rated Output Power	8800W	10000W	12000W	
Max.Peak Power	17,600VA	20,000VA	24,000VA	
Rated Output Voltage	240Vac（split–phase L1+L2+N+PE）			✓
Load Capacity of Motors	5HP	6HP		
Rated AC Frequency	50/60Hz			✓
Waveform	pure sine wave			
Total Harmonic Current	< 3% (rated power)			
Power Factor	–0.8~ +0.8			
DC Component	< 0.5% IN			
Switch Time	10ms（typical)			
Output mode	off–grid / hybrid / on–grid			
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	5,500W + 5,500W		6,500W + 6,500W	
Max.Input Current	22A + 22A			
Max.Voltage of Open Circuit	500Vdc + 500Vdc			
MPPT Voltage Range	125~425Vdc			
MAINS/GENERATOR INPUT				
Input Voltage Range	90~140Vac			
Frequency Range	50/60Hz			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max.Efficiency	97.5%			
European Efficiency	97%			
GENERAL				
Dimensions	440*240*700mm (1.44*0.79*2.30ft)			
Weight	37kg（81.57lb)			
Protection Degree	IP65			
Operating Temperature Range	–25~60℃,>45℃ 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			