



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 | | | |