



HESP series

Solar Storage Inverter

(For Residential)

HESP4840S100-H
HESP4846S100-H

HESP4850S100-H
HESP4855S100-H
HESP4860S100-H



Efficient

- Dual MPPT technology maximizes output power of solar panels
- Dual input current up to 16A*2

User-friendly

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

All-in-one

- Charging current up to 100A
- 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
- Grid-connected certified

Intelligent

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

| MODEL | HESP4840S100-H | HESP4846S100-H | HESP4850S100-H HESP4855S100-H | HESP4860S100-H | CAN BE SET |
|--------------------------------------|---|----------------|----------------------------------|----------------|------------|
| OFF-GRID OUTPUT | | | | | |
| Rated Output Power | 4,000W | 4,600W | 5,500W | 6,000W | |
| Peak Power | 8,000VA | 9,200VA | 11,000VA | 12,000VA | |
| Rated Output Voltage | 230Vac (200/208/220/240Vac settable) | | | | ✓ |
| Load Capacity of Motors | 3HP | 4HP | | | |
| Rated Frequency | 50/60Hz | | | | ✓ |
| Switch Time | 10ms (typical) | | | | |
| ON-GRID OUTPUT | | | | | |
| Rated Output Power | 4,000W | 4,600W | 5,500W | 6,000W | |
| Max. Apparent Power | 4,000VA | 4,600VA | 5,500VA | 6,000VA | |
| Max. Output Current | 17.4A | 20A | 24A | 26A | |
| THDI | < 3% | | | | |
| Power Factor | 0.8 leading to 0.8 lagging | | | | |
| Rated Voltage | 230Vac | | | | |
| Frequency | 50Hz/60Hz | | | | |
| BATTERY | | | | | |
| Battery Type | Lead-acid / Li-ion / User Defined | | | | ✓ |
| Rated Battery Input Voltage | 48V(minimum starting voltage 44V) | | | | |
| Battery Voltage Range | 40~60Vdc | | | | ✓ |
| Max. PV Charging Current | 100A | | | | ✓ |
| Max.Mains/Generator Charging Current | 60A | | | | ✓ |
| PV INPUT | | | | | |
| Num. of MPPT Trackers | 2 | | | | |
| Max.PV Array Power | 3,000W+3,000W | 3,500W+3,500W | 4,000W+4,000W | 4,500W+4,500W | |
| Max.Input Current | 16A+16A | | | | |
| Max.Voltage of Open Circuit | 500Vdc+500Vdc | | | | |
| MPPT Voltage Range | 120~450Vdc | | | | |
| MAINS/GENERATOR INPUT | | | | | |
| Input Voltage Range | UPS mode: 170~280Vac; APL mode: 90~280Vac | | | | ✓ |
| Input Frequency Range | 50/60Hz | | | | |
| Bypass Overload Current | 40A | | | | |
| EFFICIENCY | | | | | |
| MPPT Tracking Efficiency | 99.9% | | | | |
| Max. Mains Charging Efficiency | 92% | | | | |
| GENERAL | | | | | |
| Num. of Parallel | 1-6 units | | | | |
| Dimensions | 556*345*182mm (1.82*1.13*0.60ft) | | | | |
| Weight | 20kg (44.1lb) | | | | |
| Protection Degree | IP65 | | | | |
| Operating Temperature Range | -25~60°C (-13°F~140°F) | | | | |
| 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 / GPRS | | | | ✓ |
| CERTIFICATION | | | | | |
| Safety | CE(IEC 62109-1/2)、CEI0-21、VDE-AR-N-4105、EN50549-1 | | | | |
| EMC | EN61000、FCC-SODC | | | | |