



HESP series

Hybrid Solar Inverter



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 | HESP4840S100-H | HESP4846S100-H | HESP4855S100-H | HESP4860S100-H |
|--------------------------------------|--|----------------|----------------|----------------|
| INVERTER OUTPUT | | | | |
| Rated Output Power | 4000W | 4600W | 5500W | 6000W |
| Max.Peak Power | 8,000VA | 9,200VA | 11,000VA | 12,000VA |
| Rated Output Voltage | 230Vac | | | |
| Load Capacity of Motors | 4HP | | | |
| Rated AC Frequency | 50Hz/60Hz | | | |
| Total Harmonic Current | < 3% | | | |
| Power Factor | 1 | | | |
| Permitted parallel number | 1~6(sing/three phase) | | | |
| Switch Time | 10ms (typica) | | | |
| Output mode | off-gri(default) / On-grid / Hybrid | | | |
| BATTERY | | | | |
| Battery Type | Lead-acid/Li-ion/UserDefined | | | |
| Rated Battery Voltage | 48V(minimumstartingvoltage44V) | | | |
| Voltage Range | 40~58Vdc | | | |
| Max.MPPT Charging Current | 80A | | | |
| Max.Mains/Generator Charging Current | 60A | | | |
| Max.Hybrid Charging Current | 100A | | | |
| PV INPUT | | | | |
| Num. of MPPT Trackers | 2 | | | |
| Max.PV Array Power | 6600W | | | |
| 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 | | | |
| Maximum bypass overload current | 40A | | | |
| EFFICIENCY | | | | |
| MPPT Tracking Efficiency | 99.9% | | | |
| Max.Efficiency | 92% | | | |
| GENERAL | | | | |
| Dimensions | 556*345*182mm (1.82*1.13*0.60ft) | | | |
| Weight | 19.2kg (42.311) | | | |
| Protection Degree | IP65 | | | |
| Operating Temperature Range | Operating: -25~55℃, >45℃derated; Storage:-25~60℃ | | | |
| Noise | ≤60dB | | | |
| Humidity range | 0%~100% | | | |
| Cooling Method | Forcedaircooling,variablespeedoffan | | | |
| Warranty | 5years | | | |
| COMMUNICATION | | | | |
| Embedded Interfaces | RS485 / CAN / USB / Dry contact | | | |
| External Modules | Wi-Fi | | | |
| CERTIFACATION | | | | |
| Safety | IEC62109-1, IEC62109-2 | | | |
| EMC | EN61000-6-1, EN61000-6-3, FCC 15 class B | | | |
| Rohs | Yes | | | |