



HESP 8-12kW

Three-Phase Hybrid Solar Storage Inverter

- Compatible with 48V storage batteries
- 2 efficient, independent MPPT ports
- Separate generator port
- Support three-phase pure sine wave output
- Support time-slot function for peak-valley
- IP65 waterproof protection degree

ABOUT SRNE

- SRNE 15 years in PV industry, committed to independent R&D and production.
- Holds over 200 patents in energy storage, with unique industry-leading technologies.
- Chooses top-quality international components to deliver high-value products to customers.
- Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

| MODEL | HESP4880SH3 | HESP48100SH3 | HESP48120SH3 |
|--------------------------------------|--|----------------|-------------------------------------|
| AC OUTPUT | | | |
| Rated Output Power | 8,000W | 10,000W | 12,000W |
| Max. Output Power | 16,000VA | 20,000VA | 24,000VA |
| Rated Output Voltage | 230/400 Vac (three-Phase) | | |
| Load Motor Capacity | 5HP | 6HP | |
| Rated Frequency | 50/60Hz ±0.3 | | |
| Switch Time | 10ms (typical) | | |
| BATTERY | | | |
| Battery Type | Li-ion / Lead-Acid / User Defined | | |
| Rated Battery Voltage | 48V | | |
| Battery Voltage Range | 40~60Vdc | | |
| Max. Grid/Generator Charging Current | 100A | 120A | 120A |
| Max. Hybrid Charging Current | 180A | 220A | 260A |
| SOLAR INPUT | | | |
| No. Of MPPT | 2 | | |
| Max. Input Power | 6,000W+6,000W | 7,500W+7,500W | 9,000W+9,000W |
| Max. Input Current | 22A+22A | | |
| Max. Open Circuit Voltage | 800Vdc+800Vdc | | |
| MPPT Voltage Range | 200~650Vdc/200~650Vdc | | |
| GRID/GENERATOR INPUT | | | |
| Input Voltage Range | Phase voltage 170~280V, Line voltage 305~485V | | |
| Input Frequency Range | 50/60Hz | | |
| Bypass Overload Current | 23.2A | 29A | 35A |
| EFFICIENCY | | | |
| MPPT Tracking Efficiency | 99.9% | | |
| Max. Efficiency | ≥92% | | |
| European Efficiency | 97.2% | 97.5% | |
| GENERAL DATA | | | |
| Parallel Capacity | 1~6 Units | | |
| Dimension | 670*440*240mm | Humidity | 0~100% |
| Weight | 39kg | Cooling Method | Heat sink + intelligent fan cooling |
| Protection Degree | IP65 | Warranty | 5 years |
| Temperature | -10~55°C, >45°C Derate | Communication | RS485/CAN/USB/Dry Contact |
| External Module (Optional) | Wi-Fi/GPRS | Topology | Transformerless |
| Certificate | IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC 15 class B, RoHS | | |

With PV input current / power limiting protection, Anti-reverse charge protection at night, AC input over-voltage protection, AC input under-voltage protection, Battery over-voltage protection, Battery under-voltage protection, Battery over-current protection, AC output short-circuit protection, Heat sink over-temperature protection, inverter over-load protection, AC output reverse, Bypass over-current protection, Bypass phase inconsistency protection.