



HYP series (can be parallel)

Hybrid Solar Charge Inverter

HYP4850U100-H



/ Efficient

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22A PV input current for high power PV module

/ User-friendly

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

/ All-in-one

- Solar charge controller up to 100A charging current
- Support for Li-ion battery BMS communication

/ Reliable

- SPWM outputs high quality pure sine wave AC power
- Up to 6 units in parallel connection meet the needs

/ Safety

- 360 degree of security from hardware to software
- IEC safety approvals

/ Intelligent

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

| MODEL | HYP4850U100-H | CAN BE SET |
|--------------------------------------|----------------------------------|------------|
| INVERTER OUTPUT | | |
| Rated Output Power | 5,000W | |
| Max.Peak Power | 10,000VA | |
| Rated Output Voltage | 120Vac (L/N/PE single-phase) | ✓ |
| Load Capacity of Motors | 4HP | |
| Rated AC Frequency | 50/60Hz | ✓ |
| Waveform | Pure sine wave | |
| Switch Time | 10ms (typical) | |
| Parallel Capacity | 1-6 units (single/three phase) | |
| BATTERY | | |
| Battery Type | Li-ion / Lead-acid / user-define | ✓ |
| Rated Battery Voltage | 48Vdc | |
| Voltage Range | 40~60Vdc | ✓ |
| Max.MPPT Charging Current | 100A | ✓ |
| Max.Mains/Generator Charging Current | 40A | ✓ |
| Max.Hybrid Charging Current | 100A | ✓ |
| PV INPUT | | |
| Num. of MPP Trackers | 1 | |
| Max.PV array power | 5,500W | |
| Max.input current | 22A | |
| Max.Voltage of Open Circuit | 500Vdc | |
| MPPT Voltage Range | 125~450Vdc | |
| MAINS / GENERATOR INPUT | | |
| Input Voltage Range | 90~140Vac | |
| Frequency Range | 50/60Hz | |
| Bypass Overload Current | 63A | |
| EFFICIENCY | | |
| MPPT Tracking Efficiency | 99.9% | |
| Max. Battery Inverter Efficiency | 92% | |
| GENERAL | | |
| Dimensions | 446.9*350*133mm | |
| Weight | 13kg | |
| Protection Degree | IP20, indoor only | |
| Operating Temperature Range | -15~55°C | |
| Noise | <60dB | |
| Cooling Method | Intelligent fan | |
| Warranty | 2 years | |
| COMMUNICATION | | |
| Embedded Interfaces | RS485/CAN/USB/dry contact | ✓ |
| External Modules (Optional) | Wi-Fi/GPRS | ✓ |
| CERTIFICATION | | |
| Safety | CE (IEC62109-1) | |
| EMC | EN61000 | |
| RoHS | yes | |