



HYP series (can be parallel)

Hybrid Solar Charge Inverter

HYP4850U100-H



120V



48V



5KW



500V



IP20

/ 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	