

## All-in-one Solar Charge Inverter

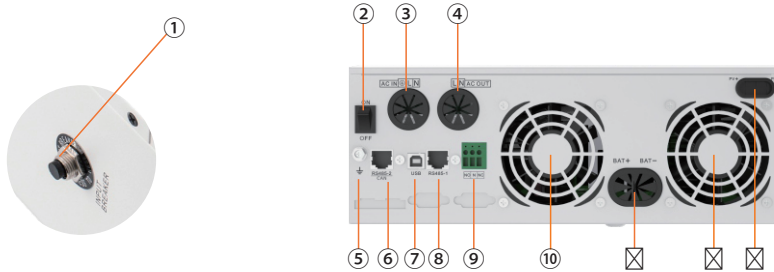
HF48V-H Higher PV Voltage Series(Max.Vdc: 500V; Rated input voltage: 220/230V)



### Performance characteristics

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and pragram.
- Dual LFP battery activation method: PV&mains
- Uninterrupted power supply: simultaneous connection to utility grid/generator and PV
- Intelligent programming: the priority of the output from different energy sources can be set
- High energy efficiency: up to 99.9% MPPT capture efficiency
- Instant viewing & operation: the LCD panel displays data and settings, while you can also be viewed using the app and webpage
- Power saving: power saving mode automatically reduces power consumption at zero-load
- Efficient heat dissipation: via intelligent adjustable speed fans
- Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.
- under-voltage and over-voltage protection and reverse polarity protection.

### Product characteristics



①	Overload Protector	⑨	Dry Contact Port
②	ON/OFF Rocker Switch	⑩	Cooling Fan
③	AC Input Port	⊗	Battery Port
④	AC Output Port	⊗	Cooling Fan
⑤	Grounding Screw Hole	⊗	PV Port
⑥	RS485-2 Communication Port (For BMS)	⊗	Light Touch Button
⑦	USB Communication Port	⊗	Indicator Light
⑧	RS485-1 Communication Port	⊗	LCD Screen



### Parameters

Model	HF4830S60-H	HF4850S80-H	Adjustable
<b>Battery Input</b>			
Battery type	Sealed, Flood, GEL, LFP, Ternary		✓
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)		
Hybrid Charging Maximum Charging Current	80A		✓
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc (Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)		✓
<b>Solar Input</b>			
Maximum PV Open-circuit Voltage	500vdc		
PV Working Voltage Range	120-500Vdc		
MPPT Voltage Range	120-450Vdc		
Maximum PV Input Current	18A		
Maximum PV Input Power	4400W	5200W	
Maximum PV Charging Current	60A	80A	✓
<b>AC Input (generator/grid)</b>			
Mains Maximum Charging Current	60A		✓
Rated Input Voltage	220/230Vac		
Input Voltage Range	UPS Mains Mode : (170Vac~280Vac) ±2% APL Generator Mode : (90Vac-280Vac) ±2%		✓
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	>95%		
Switch Time (bypass and inverter)	10ms(Typical Value)		
Maximum Bypass Overload Current	40A		
<b>AC Output</b>			
Output Voltage Waveform	Pure Sine Wave		
Rated Output Voltage	230 (200/208/220/240V ac)		✓
Rated Output Power	3000 (2600/2700/2850/3000VA)	5000 (4350/4500/4800/5000VA)	
Rated Output Power	3000 (2600/2700/2850/3000W)	5000 (4350/4500/4800/5000W)	
Peak Power	6000VA	10000VA	
On-load Motor Capacity	2HP	4HP	
Output Frequency Range(Hz)	50Hz ±0.3Hz/60Hz±0.3Hz		✓
Maximum Efficiency	>90%		
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode : ≤25W (Manual Setup)		
<b>General</b>			
Certificate	CE(IEC 62109-1)		
EMC Certification Level	EN61000		
Working Temperature Range	-15° C ~ 55° C		
Storage Temperature Range	-25° C ~ 60° C		
Humidity Range	5% to 95%(Conformal Coating Protection)		
Dimensions	426mm*322mm*126mm		
Weight (KG)	10.9		