

2022 Product Brochure

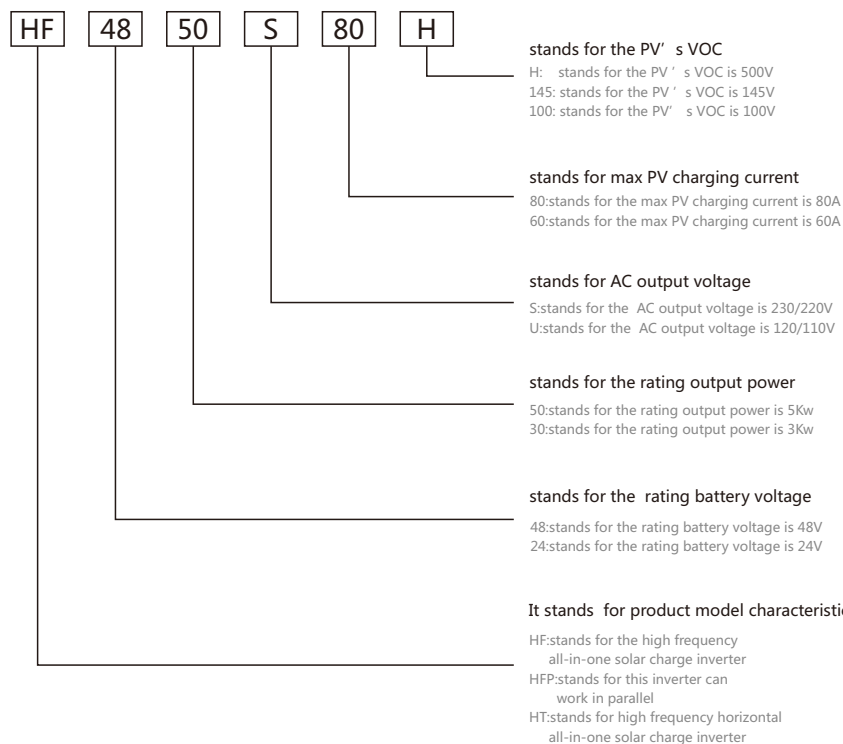
- Household photovoltaic power supply system
- All-in-one solar charge inverter system
- Street Light Series system



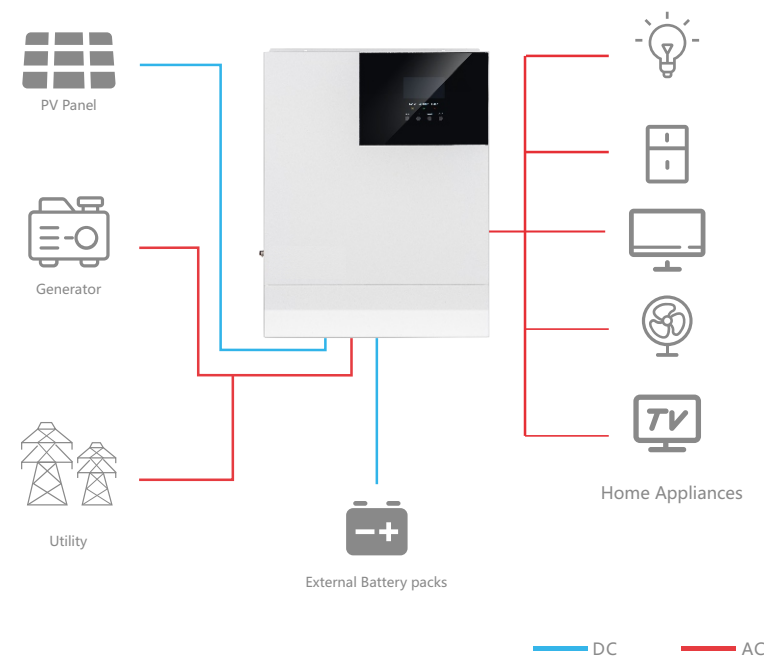
RELEVANT CERTIFICATION



NAMING CONVENTION



PRODUCT SCHEMATIC



APPLICATION SCENARIOS



All-in-one Solar Charge Inverter

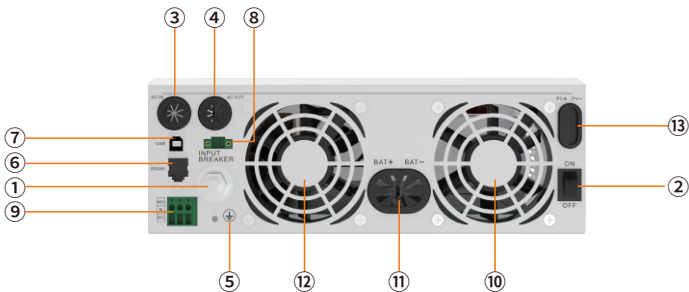
HF24V-H Higher PV Voltage Series(Max.Voc : 500V ; Rated input voltage : 220/230V)



Performance characteristics

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
- 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 of 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.

Product characteristics



①	Overload Protector	⑨	Dry Contact Port
②	ON/OFF Rocker Switch	⑩	Cooling Fan
③	AC Input Port	⑪	Battery Port
④	AC Output Port	⑫	Cooling Fan
⑤	Grounding Screw Hole	⑬	PV Port
⑥	RS485 Communication Port	⑭	Light Touch Button
⑦	USB Communication Port	⑮	Indicator Light
⑧	CAN communication port	⑯	LCD Screen



Parameters

Model	HF2430S80-H		Adjustable
Battery Input			
Battery type	Sealed, Flood, GEL, LFP, Ternary		√
Rated Battery Input Voltage	24V (Minimum Startup Voltage 22V)		
Hybrid Charging Maximum Charging Current	80A		√
Battery Voltage Range	20Vdc~33Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)		√
Solar Input			
Maximum PV Open-circuit Voltage	500vdc		
PV Working Voltage Range	120-500Vdc		
MPPT Voltage Range	120-450Vdc		
Maximum PV Input Current	13A		
Maximum PV Input Power	4000W		
Maximum PV Charging Current	80A		√
AC Input (generator/grid)			
Mains Maximum Charging Current	80A		√
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	30A		
AC Output			
Output Voltage Waveform	Pure Sine Wave		
Rated Output Voltage	230 (200/208/220/240Vac)		√
Rated Output Power	3300 (2850/2950/3150/3300VA)		
Rated Output Power	3300 (2850/2950/3150/3300W)		
Peak Power	6000VA		
On-load Motor Capacity	2HP		
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz		√
Maximum Efficiency	>92%		
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode : ≤25W (Manual Setup)		
General			
Certificate	CE(IEC 62109-1)		
EMC Certification Level	EN61000, C2		
Working Temperature Range	-15°C ~ 55°C		
Storage Temperature Range	-25°C ~ 60°C		
Humidity Range	5% to 95%(Conformal Coating Protection)		
Dimensions	378mm*280mm*103mm		
Weight	6.9 KG		

All-in-one Solar Charge Inverter

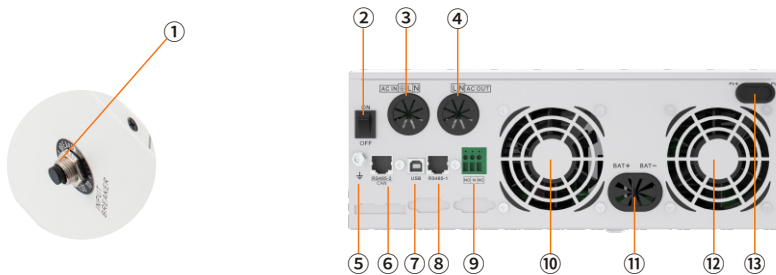
HF48V-H Higher PV Voltage Series(Max.Voc : 500V ; Rated input voltage : 220/230V)



Performance characteristics

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
- 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 of 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	⑪	Battery Port
④	AC Output Port	⑫	Cooling Fan
⑤	Grounding Screw Hole	⑬	PV Port
⑥	RS485-2 Communication Port (For BMS)	⑭	Light Touch Button
⑦	USB Communication Port	⑮	Indicator Light
⑧	RS485-1 Communication Port	⑯	LCD Screen



Parameters

Model	HF4830S60-H		HF4850S80-H	Adjustable
Battery Input				
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...)			√
Solar Input				
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		√
AC Input (generator/grid)				
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			
AC Output				
Output Voltage Waveform	Pure Sine Wave			
Rated Output Voltage	230 (200/208/220/240Vac)			√
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)			
General				
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			