

All-in-one Solar Charge Inverter

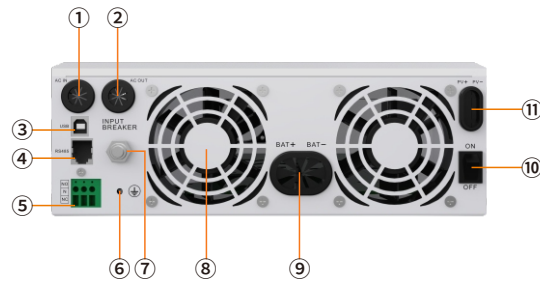
HF24V Low Voltage Series(Max.Voc 100V Rated input voltage 220/230V)



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

Parameters

Model	HF2420S60-100	HF2430S60-100	Adjustable
Battery Input			
Battery type	Sealed, Flood, GEL, LFP, Ternary		√
Rated Battery Input Voltage	24V (Minimum Startup Voltage 22V)		
Hybrid Charging Maximum Charging Current	120A	140A	√
Battery Voltage Range	20Vdc~33Vdc ± 0.3Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)		√
Solar Input			
Maximum PV Open-circuit Voltage	100vdc		
PV Working Voltage Range	30-100Vdc		
MPPT Voltage Range	30-85Vdc		
Maximum PV Input Current	40A		
Maximum PV Input Power	1600W		
Maximum PV Charging Current	60A		√
AC Input (generator/grid)			
Mains Maximum Charging Current	60A	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	2000 (1750/1800/1900/2000VA)	3000 (2600/2700/2850/3000VA)	
Rated Output Power	2000 (1750/1800/1900/2000W)	3000 (2600/2700/2850/3000W)	
Peak Power	4000VA	6000VA	
On-load Motor Capacity	1HP	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	6.2 KG		