

# All-in-one Solar Charge Inverter

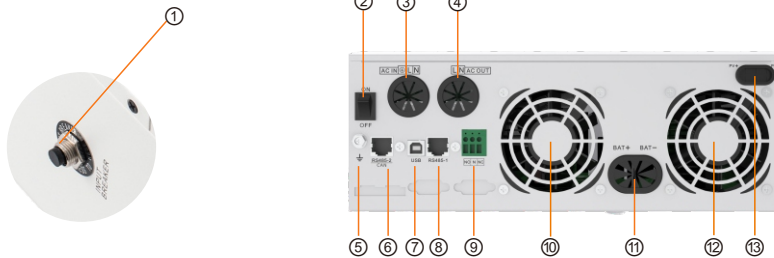
HF4835U80-145 (Max.Voc : 100V ; Rated input voltage : 110/120V)



## 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	HF4835U80-145	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	120A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)	√
<b>Solar Input</b>		
Maximum PV Open-circuit Voltage	145vdc	
PV Working Voltage Range	60-145Vdc	
MPPT Voltage Range	60-115Vdc	
Maximum PV Input Current	50A	
Maximum PV Input Power	4400W	
Maximum PV Charging Current	80A	√
<b>AC Input(generator/grid)</b>		
Mains Maximum Charging Current	40A	√
Rated Input Voltage	110/120Vac	
Input Voltage Range	(90Vac-140Vac)±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 (Vac)	120Vac (100/105/110Vac)	√
Rated Output Power (VA)	3500 (2900/3050/3200)	
Rated Output Power(W)	3500 (2900/3050/3200)	
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 )	
<b>General</b>		
Certificate	CE(IEC 62109-1)/CETL(UL 1741/ CSA C22.2 NO.107.1)	
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	426mm*322mm*124mm	
Weight (KG)	10.8	