



#### **PRODUCT OVERVIEW**

The HF series is an all-in-one hybrid inverter which integrates solar energy storage and grid power storage with sine wave AC output. Thanks to DSP control and an advanced control algorithm, the HF series has a high response speed, high reliability and meets top industry standards.

#### FEATURES

- EFFICIENT Advanced MPPT with up to 99.9% efficiency; Multiple charge and discharge modes are available
- RELIABLE Outputs high-quality pure sine wave AC power; reliable output for long periods at rated power
- USER FRIENDLY Industrial design with a modern aesthetic look; easy to install and simple to use
- SAFETY 360 degrees of security from hardware to software; IEC, SAA, cETL, FCC certification
- ALL IN ONE Support for many types of batteries; supports Li-ion battery BMS communication
- INTELLIGENT Exclusive Li-ion battery BMS dual activation; scheduling function to save costs with peak demand charges

#### APPLICATIONS

- Emergency power supply.
- Home backup storage.
- Data storage/UPS backup systems.
- Off-grid power storage.
- Solar power storage.

### **Product Description**

PART#	DESCRIPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	MAX PV INPUT VOLTAGE	POWER OUTPUT
EV-HF4835U80-145	Hybrid Inverter	90-140Vac	120Vac	145V	3500W
EV-HF4830U60-145	Hybrid Inverter	90-140Vac	120Vac	145V	3000W
EV-HF2430U60-100	Hybrid Inverter	90-140Vac	120Vac	100V	3000W



### Specifications

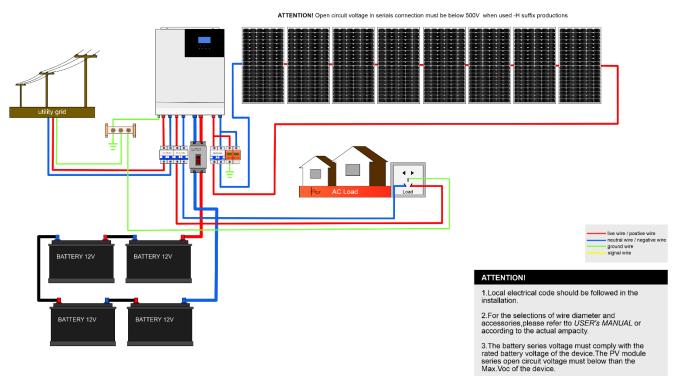
MODEL#	EV-HF4835U80-145	EV-HF4830U60-145	EV-HF2430U60-100		
INVERTER OUTPUT					
Rated Output Power	3500W	3000W	3000W		
Maximum Peak Power	6000VA				
Rated Output Voltage	120Vac (L/N/PE single phase)				
Load Capacity of Motors	2HP				
Rated AC Frequency	50/60Hz				
Waveform	Pure sine wave				
Switch Time		10ms (typical)	Oms (typical)		
BATTERY					
Battery Type	Lead-acid / Li-ion / User defined				
Rated Battery Voltage	48	24Vdc			
Voltage Range	40~60Vdc		20~33Vdc		
Maximum MPPT Charging Current	80A 60A				
Max. Grid/Generator Charging Current		40A			
Maximum Hybrid Charging Current	120A 100A		ł		
PV INPUT					
Number of MPPT Trackers		1			
Maximum PV Array Power	4400W	3400W	1600W		
Maximum Input Current	50A	40A			
Maximum Voltage of Open Circuit	145	100Vdc			
MPPT Voltage Range	60~1	30~85Vdc			
GRID/GENERATOR INPUT					
Input Voltage Range		90-140Vac			
Frequency Range	50/60Hz				
Bypass Overload Current	40A				
EFFICIENCY					
MPPT Tracking Efficiency	99.9%				
Maximum Battery Inverter Efficiency	92%				
GENERAL					
Dimensions	426*322*124mm (1.3*1*0.4ft) 378*280*103mm		ı (1.2*0.9*0.3ft)		
Weight	10.8kg (24lb)	6.2kg (13.6lb)	6.8kg (14.9lb)		
Environmental Protection	IP20, Indoor Only				
Operating Temperature Range	-15°C ~55°C (-5°F ~131°F)				
Noise	<60dB				
Cooling Method	Internal Fan				
Varranty 2 years					



**EV-HF-LV Series Low Voltage** 

MODEL#	EV-HF4850U80-H	EV-HF4835U60-H	EV-HF2430U80-H	
COMMUNICATION				
Embedded Interfaces	RS485 / CAN / USB / Dry contact			
External Modules (Optional)	WiFi / GPRS			
CERTIFICATION				
Safety	cETL, SAA, IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 Class B			
Rohs	Yes			

### **Typical System Configuration – 48V**

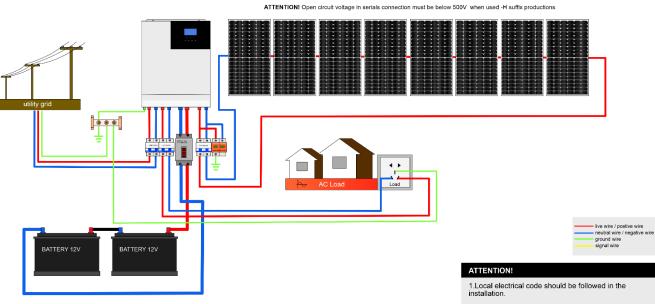


4. This diagram is for reference only, please decide on the connection method according to the actual situation.



**EV-HF-LV Series Low Voltage** 

### **Typical System Configuration – 24V**



2.For the selections of wire diameter and accessories, please refer tto USER's MANUAL or according to the actual ampacity.

3.The battery series voltage must comply with the rated battery voltage of the device. The PV module series open circuit voltage must below than the Max.Voc of the device.

4. This diagram is for reference only, please decide on the connection method according to the actual situation.