

# LF-H Series

Low frequency off grid horizontal solar inverter with AC changer

### Feature:

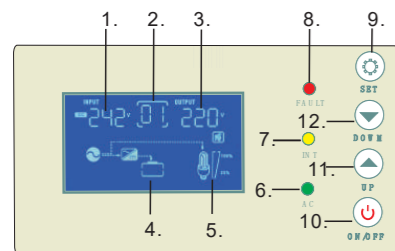
- Pure sine wave output
- AC Charging current 0-35A
- Compatible with Gel. AGM.Flooded. Sealed lead acid and Lithium battery
- Multiple Protections:  
High/low voltage alarm and protection-Deep discharge protection  
Battery reverse polarity connection protection  
Overload, short-circuit Protection  
Over-temperature protection
- Multiple optional operations modes: Utility(AC) priority or Solar(PV) /Battery priority or energy-saving mode
- Have UPS function and AC charger
- AVR (Automatic Voltage Regulation) 110/120/220/230±10%



### Introduction:

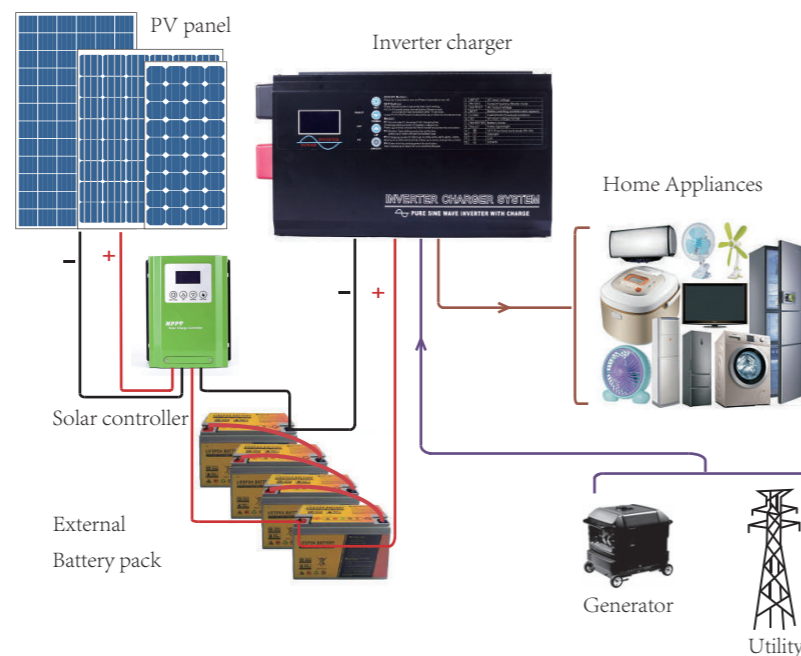
LF-H Series is pure sine wave inverter with AC charge, UPS and AVR functions. Smart LCD display with easily user-configurable buttons shows comprehensive data of battery charge current and voltage, AC input and output voltage, Load etc. With multiple optional operations modes and multiple protections, LF-H series is perfect for solar power system, lights, computer, fan and other small power household appliances.

### LCD Display Information

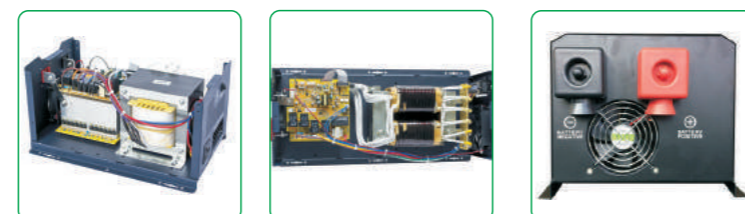
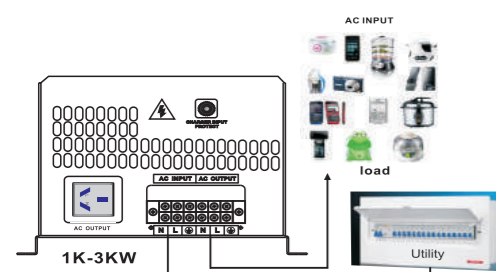


1.	INPUT	AC input voltage
2.	Hz (01)	output frequency / Working mode
3.	OUTPUT	AC output voltage
4.	BATT	Battery working condition and capacity
5.	LOAD	Load power Overload condition
6.	AC	AC input voltage normal
7.	INVERTER	Battery mode
8.	FAULT	False signal light
9.	⊙	MUTE/FUNCTION
10.	⊙	ON/OFF
11.	⊙	UP
12.	⊙	DOWN

### Solar System Connection



### System Connection:



### Specification

MODEL	LF-H1K	LF-H2K	LF-H3K	LF-H4K	LF-H5K	LF-H6K	LF-H8K	LF-H10K	LF-H12K		
Nominal Battery System Voltage	12V/24V	24V/48V	48V			48V/96V					
INVERTER OUTPUT & INPUT	Rated Power	1KW	2KW	3KW	4KW	5KW	6KW	8KW	10KW	12KW	
	Peak Power	3KW	6KW	9KW	12KW	15KW	18KW	24KW	30KW	36KW	
	Output Waveform	Pure Sine Wave									
	Output Voltage	110VAC/120VAC/220VAC/230V±2%									
	Mains Input Frequency Range	45Hz-65Hz									
	Transfer Time	Typical:5ms									
	Thermal Method	Intelligent fan cooling, ≤42℃ fan rotates slowly, ≥45℃ fan rotates fast									
AC INPUT&OUTPUT	Capable Of Starting Electric Motor	0.5HP	1HP	1.5HP	2HP		3HP				
	Commercial Power Range(VAC)	110VAC:73~137		120VAC:80~150		220VAC:145~275		230VAC:152~288		240VAC:158~300	
	AVR Voltage Range(VAC)	AVR output 110/120/220/230/240±10%									
	Output Frequency Range	Tracking Automatically									
BATTERY	AC Charging Current:	10A-40A(set by yourself)									
	Nominal Input Voltage	12VDC/24VDC/48VDC			48VDC/96VDC						
	DC Input Voltage Range	12VDC:10.5VDC-15VDC			24VDC:21.0VDC-30VDC		48VDC:42.0VDC-60VDC				
	Battery Under Voltage Protection	12VDC:10.5VDC			24VDC:21V		48VDC:42V				
	Battery Low Voltage Protection	12VDC:10VDC			24VDC:20V		48VDC:40V				
	Battery Over Voltage Alarm	12VDC:15VDC			24VDC:30V		48VDC:60V				
PROTECTION	Battery Over Voltage Protection	12VDC:16.7VDC			24VDC:33.4V		48VDC:66.8V				
	Operating Temperature	0-70℃									
	Temperature Protection	≥85℃ alarm, ≥90℃ off the machine									
	Overload	IPS automatically shut down if overload exceeds 120% of normal value for 10 seconds,IPS automatically resume work if overload comes to rated load									
MECHANICAL SPECIFICATIONS	High-low voltage protection,Short Circuit Protection,Against Overload,,Battery reverse connection, over voltage										
	Under-voltage and over-temperature protection										
	External Size (W*H*D)	460*230*200mm			650*270*200mm			763*315*248mm			
	Package Size (W*H*D)	530*330*255mm			740*350*275mm			840*405*320mm			
	Net Weight (kg)	17	20	27	35	37	41	57	60	70	
OTHER	Gross Weight (kg)	19	22	29	37	39	43	60	63	73	
	Frequency	Commercial power supply :shared frequency with the Commercial inversion state:60/50±0.5									
	Other Functions	UPS and AC Charger									
Display	LCD										

\* Product specifications are subject to change without further notice.

### Approximate Back-up Time Table

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
1000	0.750	1.600	3.200	6.400	12.800
2000	0.375	0.800	1.600	3.200	6.400
3000		0.530	1.060	2.130	4.260
4000		0.400	0.800	1.600	3.200
5000		0.320	0.640	1.280	2.560
6000		0.270	0.535	1.070	2.140

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