



OFF GRID HYBRID INVERTER

LS-HF24V Series



HYBRID SOLAR INVERTER



Efficient

- High energy efficiency: up to 99.9% MPPT capture efficiency.
- Efficient heat dissipation: via intelligent adjustable speed fans.



User-friendly

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



Reliable

- Dual LFP battery activation method: PV&mains
- Uninterrupted power supply: simultaneous connection to utility grid/generator and PV.
- Power saving: power saving mode automatically reduces power consumption at zero-load.



Intelligent

- Intelligent programming: the priority of the output from different energy sources can be set.
- Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage.



Safety

- 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.

Parameters

Model	LS-HF2420U60	LS-HF2430U60	LS-HF2420S60	LS-HF2430S60	Adjustable
Battery Input					
Battery type	Sealed、Flood、GEL、LFP、Ternary				√
Rated Battery Input Voltage	24V(Minimum Startup Voltage 22V)				
Hybrid Charging Maximum Charging Current	100A		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				
MPPTVoltage 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	40A		60A	80A	√
Rated Input Voltage	110/120Vac		220/230Vac		
Input Voltage Range	(90Vac-140Vac)±2%		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		30A		
AC Output					
Output Voltage Waveform	Pure Sine Wave				
Rated Output Voltage(Vac)	120Vac(100/105/110Vac)		230Vac(200/208/220/240Vac)		√
Rated Output Power(VA)	2000(1650/1750/1800)	3000(2500/2625/2750)	2000 (1750/1800/1900/2000)	3000 (2600/2700/2850/3000)	
Rated Output Power(W)	2000(1650/1750/1800)	3000(2500/2625/2750)	2000 (1750/1800/1900/2000)	3000 (2600/2700/2850/3000)	
Peak Power	4000VA	6000VA	4000VA	6000VA	
On-oad Motor Capacity	1HP	2HP	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)/CETL(UL 1741/CSA C22.2 NO.107.1)		CE(IEC 62109-1)		
EMC Certification Level	EN61000,C2				
Working Temperature Range	-15℃~55℃				
Storage Temperature Range	-25℃~60℃				
Humidity Range	5% to 95%(Conformal Coating Protection)				
Noise	<60db		/		
Dimensions	378mm*280mm*103mm				
Weight (KG)	6.8				