



OFF GRID HYBRID INVERTER

LS-HFP Series



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.
- Supports up to 6 devices of the same model connected in parallel (forming a single-phase, split-phase, three-phase electrical system)

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-HFP4835U80	LS-HFP4850S80	LS-HFP4850S80H	Adjustable
Battery Input				
Battery type	Sealed、Flood、GEL、LFP、Ternary			√
Rated Battery Input Voltage	48V(Minimum Startup Voltage 44V)			
Hybrid Charging Maximum Charging Current	120A	140A	80A	√
Battery Voltage Range	40Vdc~60Vdc±0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery....)			√
Solar Input				
Maximum PV Open-circuit Voltage	145vdc		500Vdc	
PV Working Voltage Range	60-145Vdc		120-500Vdc	
MPPT Voltage Range	60-115Vdc		120-450Vdc	
Maximum PVInput Current	50A		22A	
Maximum PVInput Power	4400W		5500W	
Maximum PVCharging Current	80A		80A	√
AC Input(generator/grid)				
Mains Maximum Charging Current	40A	60A		√
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			
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)	3500(2900/3050/3200)	5000(4350/4500/4750/5000)		
Rated Output Power(W)	3500(2900/3050/3200)	5000(4350/4500/4750/5000)		
Peak Power	6000VA	10000VA		
On-oad Motor Capacity	2HP	4HP		
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz			√
Maximum Efficiency	>91%	>92%		
No-load Loss	Non Energy-saving Mode:≤50W Energy-saving Mode:≤25W(Manual Setup)			
General				
Number of parallel/split phases	1-6PCS			
Certificate	CE(IEC 62109-1)/CETL(UL1741/CSA C22.2 NO.107.1)	CE(IEC 62109-1)	CE(IEC62109-1)/CETL(UL1741C22.2 NO.107.1)	
EMC Certification Level	EN61000,C2			
Working Temperature Range	-15℃~55℃			
Storage Temperature Range	-25℃~60℃			
Humidity Range	5% to 95%(Conformal Coating Protection)			
Dimensions	426mm*322mm*124mm			
Weight (KG)	10.8	10.5		