



OFF GRID HYBRID INVERTER

48V PV 500V 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.
- Working without battery under special conditions.

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.

Parameters

Model	LS-HF4835U60H	LS-HF4850U80H	LS-HF4850S80H	Adjustable
Battery Input				
Battery type	Sealed、 Flood、 GEL、 LFP、 Ternary			√
Rated Battery Input Voltage	48V(Minimum Startup Voltage 44V)			
Hybrid Charging Maximum Charging Current	80A			√
Battery Voltage Range	40Vdc~60Vdc±0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery....)			√
Solar Input				
Maximum PV Open-circuit	450vdc	500vdc		
PV Working Voltage Range	120-450Vdc	120-500Vdc		
MPPT Voltage Range	120-430Vdc	120-450Vdc		
Maximum PV Input Current	18A			
Maximum PV Input Power	4400W	5200WV		
Maximum PV Charging Current	60A	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	63A	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(4100/4300/4500)	5000(4350/4500/4800/5000)	
Rated Output Power(W)	3500(2900/3050/3200)	5000(4100/4300/4500)	5000(4350/4500/4800/5000)	
Peak Power	7000VA	10000VA		
On-load Motor Capacity	2HP	4HP		
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz			√
Maximum Efficiency	>90%			
No-load Loss	Non Energy-saving Mode:≤50W Energy-saving Mode:≤25W (Manual Setup)			
General				
Certificate	CE(IEC62109-1)/CETL(UL1741 CSA C22.2 NO.107.1)			
EMC Certification Level	EN61000			
Working Temperature Range	-15℃~55℃			
Storage Temperature Range	-25℃~60℃			
Humidity Range	5% to 95%(Conformal Coating Protection)			
Dimensions	426mm*322mm*126mm			
Weight (KG)	10.5	11.6	10.5	

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