



OFF GRID HYBRID INVERTER

LS-HF48V 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.

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-HF4835U80 | LS-HF4850S80 | 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 | √ |
| Battery Voltage Range | 40Vdc~60Vdc±0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...) | | √ |
| Solar Input | | | |
| Maximum PV Open-circuit | 145vdc | | |
| PV Working Voltage Range | 60-145Vdc | | |
| MPPT Voltage Range | 60-115Vdc | | |
| Maximum PV Input Current | 50A | | |
| Maximum PV Input Power | 4400WV | | |
| Maximum PV Charging Current | 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-load Motor Capacity | 2HP | 4HP | |
| 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(EC62109-1)/CETL(UL1741/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) | | |
| Dimensions | 426mm*322mm*124mm | | |
| Weight (KG) | 10.8 | | |