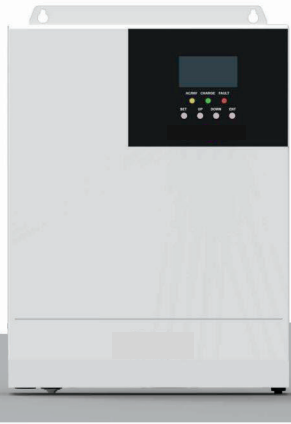




Single-phase ESS hybrid inverter - 5KW

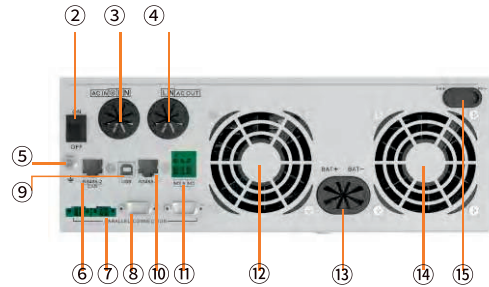
HFP4850S80-H (PV: 500V; AC: 220/230V)



Performance characteristics

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
- Dual LFP battery activation method: PV&mains
- Uninterrupted power supply: simultaneous connection to utility grid/generator and PV .
- Intelligent programming: the priority of the output from different energy sources can be set.
- High energy efficiency: up to 99.9% MPPT capture efficiency.
- Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage.
- Power saving: power saving mode automatically reduces power consumption at zero-load.
- Efficient heat dissipation: via intelligent adjustable speed fans
- 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.
- Supports up to 6 devices of the same model connected in parallel (forming a single-phase,split-phase,three-phase electrical system)

Product characteristics



① Overload Protector	⑩ RS485-1 Communication Port
② ON/OFF Rocker Switch	⑪ Dry Contact Port
③ AC Input Port	⑫ Cooling Fan
④ AC Output Port	⑬ Battery Port
⑤ Grounding Screw Hole	⑭ Cooling Fan
⑥ RS485-2 Communication Port (For BMS)	⑮ PV Port
⑦ Current Sharing Port (only apply to parallel modules)	⑯ Light Touch Button
⑧ Communication Port (only apply to parallel modules)	⑰ Indicator Light
⑨ USB Communication Port	⑱ LCD Screen

Parameters

Model		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 Voltage	500vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	22A	
Maximum PV Input Power	5500W	
Maximum PV Charging Current	80A	√
AC Input (generator/grid)		
Mains Maximum Charging Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode : (170Vac~280Vac)±2% APL Generator Mode : (90Vac~280Vac)±2% 50Hz/ 60Hz (Automatic Detection)	√
Frequency	>95%	
Mains Charging Efficiency	10ms(Typical Value)	
Switch Time (bypass and inverter)	40A	
Maximum Bypass Overload Current		
AC Output		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage	230 (200/208/220/240Vac)	√
Rated Output Power	5000 (4350/4500/4750/5000VA)	
Rated Output Power	5000 (4350/4500/4750/5000W)	
Peak Power	10000VA	
On-load Motor Capacity	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		
Number of parallel/split phases	1-6PCS	
Certificate	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)	
EMC Certification Level	EN61000, C2	
Working Temperature Range	-15°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	426mm*322mm*124mm	
Weight	10.5 KG	