

# All-in-one Solar Charge Inverter

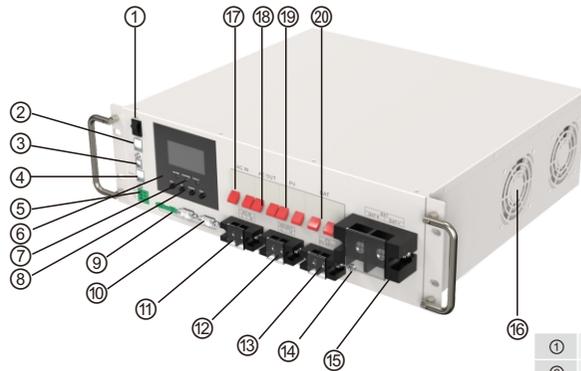
HTP4850S80-H (PV: 500V; AC: 220/230V)

## 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 clarity 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	ON/OFF Rocker Switch	⑪	AC Input Port
②	RS485-2 Communication Port	⑫	AC Output Port
③	USB Communication Port	⑬	PV Port
④	RS485-1 Communication Port	⑭	Grounding Screw Hole
⑤	Dry Contact Port	⑮	Battery Port
⑥	LCD Screen	⑯	Cooling Fan
⑦	Indicator Light	⑰	AC Input Vacancy
⑧	Light Touch Button	⑱	AC output Vacancy
⑨	Current sharing port (parallel module only)	⑲	PV Vacancy
⑩	Parallel communication port (parallel module only)	⑳	Battery Vacancy

## Parameters

<b>Model</b>	HTP4850S80-H	Adjustable
<b>Battery Input</b>		
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...)	√
<b>Solar Input</b>		
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	√
<b>AC Input (generator/grid)</b>		
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%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
<b>AC Output (Backup power)</b>		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage (Vac)	230Vac (200/208/220/240Vac)	√
Rated Output Power (VA)	5000 (4350/4500/4750/5000)	
Rated Output Power(W)	5000 (4350/4500/4750/5000)	
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)	
<b>AC Output (Grid)</b>		
Rated Output Power (W)	5000	
Max. apparent power (VA)	5000	
Max. output current (A)	21.7	
THDI	< 3%	
Rated voltage(V)	230Vac	
Frequency	50Hz/60Hz	
<b>General</b>		
Number of parallel/split phases		
Certificate	CE(IEC62109-1)	
EMC Certification Level	EN61000	
Working Temperature Range	-10°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	482mm*425mm*133mm	
Weight (KG)	14kg	