

## A More Sustainable Future







#### Introduction

This series of product is a module design of inverter and built-in MPPT controller, which has the advantages of high conversion efficiency, low power consumption and strong load-carrying ability. With intelligent control, customers can set charging mode, (Utility as complementary power) AC first mode or DC first mode, timed inversion mode and timed utility mode, timed on / off sleep mode. This is the currently the most advanced inverter & controller hybrid in the world.

#### Application

- 1.Off-grid solar power system
- 2. Solar power system with utility as complementary power

#### Feature

- 1. Easy to install. To configure a solar system, customers only need to connect it with solar panels and batteries;
- 2. CPU management, intelligent control, modular design, User-friendly LCD display;
- 3. Built-in MPPT controller, high charging efficiency;
- 4. Low power consumption, high conversion efficiency;
- 5. Intellectual, multifunction, convenient for customers with different using environment to fully use the solar energy

- 6. External battery connection, convenient to expand back-up power time;
- 7. Strong load-carrying ability, low failure rate, easy maintenance and long service life (Under proper operation, it may be as long as 5 years);
- 8. Perfect protection: low voltage protection, over voltage protection, overheat protection, short-circuit protection, overloads protection;
- 9. CE / EMC / LVD / RoHS Approvals;
- 10. Two years warranty, life-long technical supports.

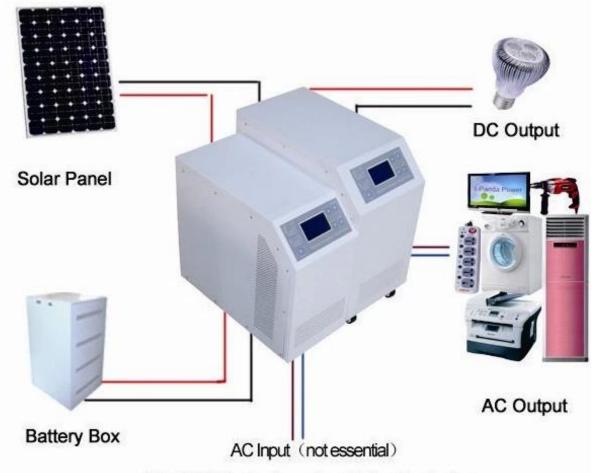
### Parameter

Parameter Model		5000W		
Rated Output Power		5000W		
Peak Power		10000W		
Battery (Lead-acid battery)		48V		
Charging Parameter				
		PV charge		
Charge Mode (setting)		PV charge + utility charge		
MPPT Solar Controller	Voltage	24V / 48V		
	Current	40A		
	Max PV Input Voltage	100V		
	PV Charge Efficiency	95% to 99%		
	Max PV Input Power	2272W		
Utility	AC Charge Current	0 ~ 15A		
	Charge Mode	3-Stage Charging		
Inversion parameter				
AC Output	Voltage	220V ± 3% or 230V ± 3 or 240V ± 3% or 100V ± 3% or 110V ± 3% (optional)		
	Frequency	$50$ Hz $\pm 0.5$ or $60$ Hz $\pm 0.5$ (optional)		
Output wave type		Pure sine wave output, waveform distortion rate≤3		
Overload ability		> 120% 1 min,> 130% 10s		
Power Consumption (Under normal working mode)		0.4A		
Power Consumption (Under sleep mode)		1-6W		

Inverter Conversion Efficiency		85% to 92%		
Utility Mode				
AC Input	Voltage	220V ± 35% or 110V + 35% (optional)		
	Frequency	The same as utility		
AC Output	Voltage	220V ± 5% or 110V + 5% (optional)		
	Frequency	The same as utility		
Overload Ability		> 120% 1 min,> 130% 10s		
(AC first or DC first) priority				
UPS Output (setting)		AC first, DC standby		
		DC first, AC standby		
Switch Time		<5ms (AC to DC / DC to AC)		
Power On		Set by users		
(Setting)		Timed open / close AC output automatically		
General Parameter				
Display	Display Mode	LCD + LED		
		Input voltage, output voltage, output frequency, battery capacity, Load condition, Status Information		
Protection		Overload output, short-circuit, high-voltage input, low-voltage input, overheat		
	Temperature	-10 °C ~ 50 °C		
Environment humidity		10% to 90%		
	Altitude	≤4000m		
Size W $\times$ D $\times$ H (mm)		450 * 246 * 468		
Packing Size W $\times$ D $\times$ H (mm)		540 * 300 * 518		
Net Weight (kg)		35		
Gross Weight (kg)		41		

Connection Diagram

# I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller



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