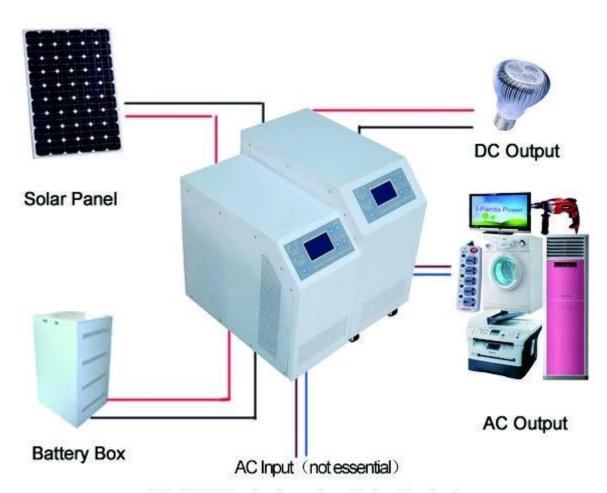
Introduction

Pure sine wave inverter with built-in <u>MPPT controller</u> I-P-HPC-Series is a module design. It has the advantages of high conversion efficiency, low power consumption and strong load-carrying ability. With intelligent control, users can set charging mode, (Utility as complementary power) AC first mode or DC first mode, timing inversion mode and timing utility mode, on/off mode. It is one of advanced hybrid inverter & controller in the world.

Application

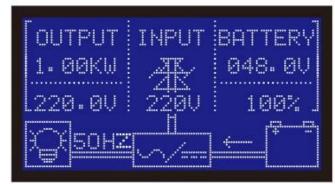
- 1.Off-grid solar power system
- 2. Solar and utility complementary power system

I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller

LCD display





Parameters

	ower	1000W 2000W	1500W	2000W	3000W	4000W	E000M			
Battery (Lead-acid batte		2000W		 			5000W			
(Lead-acid batte			3000W	4000W	6000W	8000W	10000W			
Cl : D	Battery (Lead-acid battery∏		24V/48V(optional)			48V				
Charging Param		·!	!			•				
Charge Mode∏setting∏		PV charge								
		PV charge + utility charge								
	tage	24V	24V/48V	la a .	1	48V	1			
	rent	20A	25A	30A	40A	40A	40A			
Vol	x PV Input tage	100V								
	Charge ciency	95%~99%	%							
Ma	Max PV Input Power	568W	24V: 710W	24V: 852W	24V:1136W		2272W			
			48V1420W	,48V: 1704W	48V: 2272W	-2272W				
	Charge rent	0~15A								
Cha	arge Mode	3-Stage C	harging							
Inversion param										
AC Output Volta	n Δ Ι	$220V\pm3\%$ or $230V\pm3$ or $240V\pm3\%$ or $110V\pm3\%$ (optional)				±3%				
Frequ		50Hz±0.5 or 60Hz±0.5 (optional)								
					rmonic Disto	ortion THD	<u>≤</u> 3			
		>120% 1 min, >130% 10s								
Power Consumption			24V: 0.5A 24V: 0.7A 24V: 0.7A							
		0.4A	48 \/∙ ∩ 4 Δ	48V: 0.45A		0.6A	0.65A			
Power Consumption (under sleep mode)		1-6W								
Inverter Conversion Efficiency		85%~92%								
Utility Mode	•									
Volta	ge 2	220V±35%	or 110V+3	35%∏optic	nal□					
IAC INDIII I		he same as utility's frequency								
Volta		220V±5% or 110V+5%[optional]								
1/1 () I F			as utility's f		_					
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								
<u> </u>		Timed on / off AC output automatically								
General Pa	rameter									
Display	Display Mode	LCD+LED								
	Display	Input voltage, output voltage, output frequency, battery								
	Information	capacity, load condition, status Information								
IPPOTACTION		Overload, short-circuit, high-voltage input, low-voltage input,								
		overheat								
Environme	Temperature	-10°C∏50°C								
LIIVII OI II II E	humidity	10%[]90%								
	Altitude	≤4000m								
Size W×D×H(mm)		438*208*4	¥13	450*246*468						
Packing Size		520*310*4	160	540*300*518						
W×D×H(mm)		320.310.5	+00	240.200.210						
Net Weight (kg)		15	17	19	25	34	35			
Gross Weight (kg)		16	18	20	27	40	41			

Feature

- 1. Easy to install. To configure a solar system, users just need to connect it with solar panels and batteries
- 2.CPU management, intelligent control, modular design, LCD display
- 3.Built-in MPPT controller, high charging efficiency
- 4.Low power consumption, high conversion efficiency
- 5.Intellectual | multi-function, it's convenient for users to make full use of solar energy in different situation
- 6. External battery connection, it's convenient for users to expand back-up power time
- 7.Strong load-carrying ability, low failure rate, easy to maintenance and long service life (under proper operation, it can last at least 5 years)
- 8.Perfect protection:low voltage protection, high voltage protection, over temperature protection, short-circuit protection, overload protection
- 9.CE / EMC / LVD/ RoHS Approvals
- 10.Two years warranty, life-long technical support

Function

1.Charging function

There are 2 modes as shown bellow:

- 1.1 PV only mode: when PV and utility are both connected to the inverter, only the PV will charge the battery while utility will not charge the battery.
- 1.2 PV+AC hybrid mode: when PV and utility are both connected to the inverter, both PV and utility will charge the battery.
- 2. Utility as complementary power UPS function

There are 2 kinds of complementary modes, shown as bellow:

2.1 AC first, DC standby UPS mode

When utility and battery are connected to the inverter, utility will supply power to the loads preferentially. When utility is cut off, the battery will automatically continue to supply power to the loads.

Steps are as follows:

Step 1: When utility power is available, it will drive the loads directly after voltage being stabilized and charge

batteries at the same time.

Step 2: When utility power is cut off suddenly, the inverter will convert DC to AC automatically to ensure uninterrupted power supply within 5ms.

Step 3: When utility power is available again, it will automatically transfer to utility supplying power to loads and charge batteries at the same time.

3.Timing function

There are 2 kinds of timing mode:

- 3.1 On/Off mode: Users can set specific time to turn on/off the output of the inverter.
- 3.2 Working mode: Battery or utility switchable mode. Users can set specific time when to use battery or utility supplying power (suitable for areas where electric fee is charged differently in different period)
- 4.Recording/checking function
- 4.1 Inverter fault checking: Users can check the inverter fault information
- 4.2 Discharge time checking: Users can check the discharge time of the battery

The "optional" parameter can be set as per customer's requirement

The above is our standard parameter. Subject to change without prior notice.

We have our own professional inverter and controller R&D team and we provide technical support and OEM ODM service