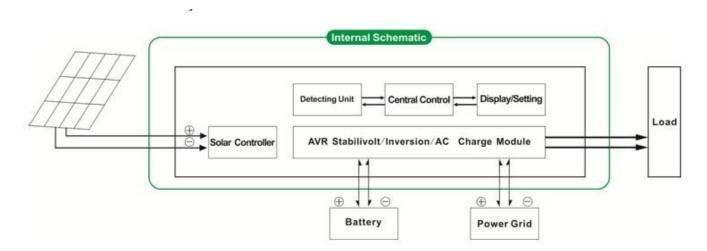
Introduction

Pure sine wave inverter with built-in MPPT controller 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

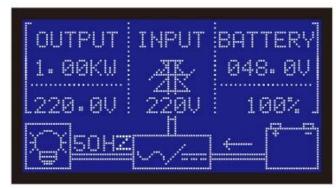


Feature

- 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
- 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
- 2.1AC 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.
- 2.2DC first, AC standby UPS mode:

When utility and battery are connected to the inverter, battery will supply power to the loads prior to utility. When battery capacity is not enough, utility will continue to supply power automatically.

Steps are as follows:

- Step 1: When battery has enough power, it will drive the loads directly via power inverter
- Step 2: When battery does not have enough power, it will automatically transfer to utility supplying power to the loads
- Step 3: After the battery is fully charged (e.g. by solar or wind charge controller), it will automatically transfer to battery supplying power to the loads.
- 3.Timing function
- 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 information4.2 Discharge time checking: Users can check the discharge time of the battery

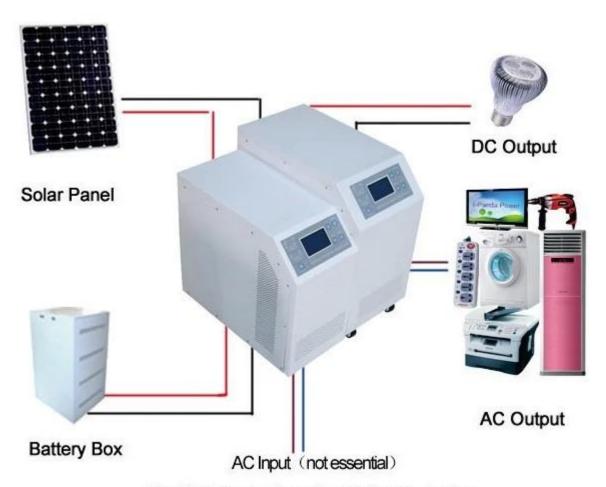
Parameter

Parameter Model		1000W	1500W	2000W	3000W	4000W	5000W		
Rated Output Power		1000W	1500W	2000W	3000W	4000W	5000W		
Peak Power		2000W	3000W	4000W	6000W	8000W	10000W		
Battery		24V	24V/48V(optional)			48V			
(Lead-acid battery ☐		Z T V	244/464(Optional)			1 0 V			
Charging Pa	rameter	lov ()							
Charge Mod	Charge Mode∏setting∏		PV charge PV charge + utility charge						
	Voltage		24V 24V/48V 48V						
	Current	20A	25A	30A	40A	40A	40A		
	Max PV Input		EST SOT FOR FOR						
	Voltage	100V							
MPPT Solar	PV Charge	059/009/							
Controller	Efficiency	95%~99%							
		568W	24V:	24V:	24V:1136W	/ -2272W	2272W		
	Max PV Input		710W	852W					
	Power		48V1420W	48V: 1704W	48V: 2272W				
Utility	AC Charge Current	0~15A							
	Charge Mode	3-Stage Charging							
Inversion pa									
	/NITAMA I	220V±3% or 230V±3 or 240V±3% or 100V±3%							
AC Output		or 110V±3% (optional)							
Frequency		50Hz±0.5 or 60Hz±0.5 (optional)							
		Pure sine wave output, Total Harmonic Distortion THD≤3 >120% 1 min, >130% 10s							
Power Cons		<u> </u>	24V: 0.5A		24\/· 0 74		0.65A		
(under norn		0.4A		10\/.		0.6A			
mode)			дам. п да і	0.45A	48V: 0.5A				
Power Consumption		1-6W	· · · · · · · · · · · · · · · · · · ·						
(under sleep	o mode)	T-01/							
Inverter Conversion		85%~92%							
Utility Mode	<u> </u>								
AC Input	/oltage	220V±35% or 110V+35%∏optional∏							
AC Input	requency	The same as utility's frequency							
		220V±5% or 110V+5%□optional□							
Frequency		The same as utility's frequency							
Overload Ak		>120% 1 min,>130% 10s							
(AC first or DC first) priority									
UPS Output[[setting[]		AC first, DC standby							
		DC first, AC standby							
		<5ms [AC to DC / DC to AC]							
1		Set by users Timed on / off AC output automatically							
General Par		Tillieu UII /	on Ac outp	at autom	acically				
ocherar rai	unicici								

	Display Mode	LCD+LED						
	Display	Input voltage, output voltage, output frequency, battery						
	Information	capacity, load condition, status Information						
Protection		Overload, short-circuit, high-voltage input, low-voltage input,						
		overheat						
Environmen	Temperature	-10°C∏50°C						
	humidity	10%[]90%						
	Altitude	≤4000m						
Size W×D×H(mm)		438*208*413				450*246*468		
Packing Size		520*310*4	160	540*300*518				
W×D×H(mm)		320.310.4	+00					
Net Weight (kg)		15	17	19	25	34	35	
Gross Weight (kg)		16	18	20	27	40	41	

picture

I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller



