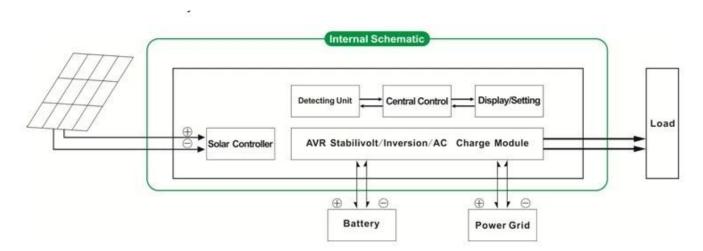
Introduction

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

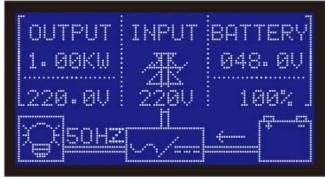


Feature

- 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 information
- 4.2 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

(Lead-acid battery∐		24V	24V/48V(optional)			48V				
Charging Pa	arameter		•			•				
Charge Mod	No∏cottina∏	PV charge								
Charge Mod	harge Mode[]setting[]		PV charge + utility charge							
MPPT Solar Controller	Voltage	24V 24V/48V 48V								
	Current	20A	25A	30A	40A	40A	40A			
	Max PV Input	1001/	-		•					
	Voltage	100V								
	PV Charge Efficiency	95%~99%								
	Max PV Input	568W	24V: 710W	24V: 852W	24V:1136W	- 2272W	2272W			
	Power		48V1420W	,48V: 1704W	48V: 2272W	ZZ 7 Z V V				
Utility	AC Charge Current	0~15A								
	Charge Mode	3-Stage C	harging							
Inversion pa										
AC Output										
-	Frequency 50Hz±0.5 or 60Hz±0.5 (optional)									
Output wav		·								
Overload al		>120% 1 n								
	Power Consumption (under normal working (24V: 0.5A							
mode)			1/12/// 11 //// 1	48V: 0.45A	48V: 0.5A	0.6A	0.65A			
Power Consumption (under sleep mode)		1-6W								
Inverter Conversion		85%~92%								
Utility Mode										
AC Input	/oltage	220V±35%	or 110V+3	35%∏optio	nal[]					
		The same as utility's frequency								
16.0.4	/oltage	220V±5% (or 110V+59	%∏optiona	ıI[
AC Output	requency	The same a	as utility's f	requency						
Overload Al	bility	>120% 1 n	nin,>130%	10s						
	DC first) priority	/								
		AC first, DC standby								
UPS Output	LIPS CHITCHITH SETTINGH		DC first, AC standby							
Switch Time	9	<5ms ∏AC	to DC / DC	to AC[
Power On										
[setting]		Timed on /	off AC outp	out automa	atically					
General Par	ameter									
	. ,	LCD+LED								
Display	Display	Input voltage, output voltage, output frequency, battery								
		capacity, load condition, status Information								
Protection		Overload, s overheat	short-circuit	t, high-vol	tage input, lo	ow-voltage	e input,			
F	Temperature	-10°C∏50°C								
Environmer	humidity	10%∏90%								
		≤4000m								
Size W×D×		438*208*4	13			450*246*4	168			

Packing Size W×D×H(mm)	520*31	520*310*460				540*300*518	
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



