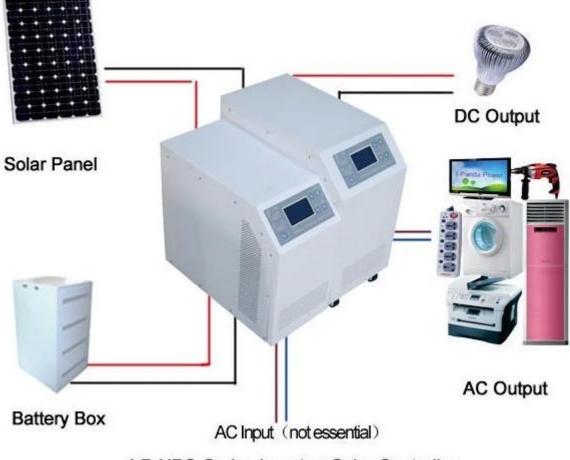
I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller

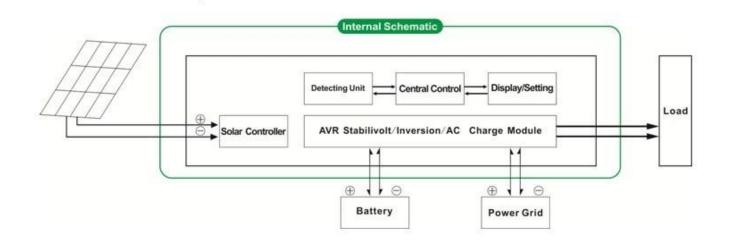
Introduction

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.<u>Off-grid solar power system</u>

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

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.

See Workflow as below:

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

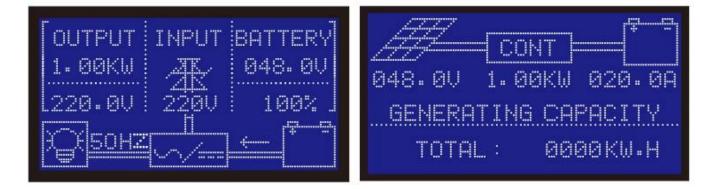
4.1 Inverter fault checking: Users can check the inverter fault information

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



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 (Lead-acid battery[]		24V	24V/48V(optional)			48V		
Charging Parameter				-				
Charge Mode[]setting[]			PV charge PV charge + utility charge					
Voltage			24V	24V/48V			48V	
MPPT Solar Controller	Current		20A	25A	30A	40A	40A	40A
	Max PV Input Voltage		100V					
	PV Charge Efficiency		95%~99%					
	Max PV Input Power		568W	24V: 710W	24V: 852W	W	-2272W	2272W
				48V1420W	48V: 1704	W 48V: 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	50Hz±0.5 or 60Hz±0.5 (optional)						
Output wave type Pure sine wa		e wave output, Total Harmonic Distortion THD≤3						
		>120% 1 mir	nin, >130% 10s					
Denne Communitien			2	4V: 0.5A	24V: 0.7A	24V: 0.7A		
Power Consumption (under normal working mode)		0.4A	4	8V: 0.4A	18V: 0.45A	48V: 0.5A	0.6A	0.65A
Power Consumption (under sleep mode)		1-6W					1	

Efficiency	85%~92%							
-								
Voltage	220V±35% or 110V+35%[optional]							
Frequency	The same as utility's frequency							
Voltage	220V±5% or 110V+5%_optional							
Frequency	The same as utility's frequency							
	>120% 1 min,>130% 10s							
priority								
	AC first, DC standby							
]	DC first, AC standby							
	<5ms [AC to DC / DC to AC]							
	Set by users							
	Timed on / off AC output automatically							
Display Mode	LCD+LED							
Display Information	Input voltage, output voltage, output frequency, battery capacity, load condition, status Information							
	Overload, short-circuit, high-voltage input, low-voltage input, overheat							
Temperature	-10°C[150°C							
humidity	10%[]90%							
Altitude	≤4000m							
•	438*208*413 450*246*468							
H(mm)	520*310*460 540*300*518							
	15 17 19 25 34 35							
	16 18 20 27 40 41							
	Frequency Voltage Frequency priority Display Mode Display Information Temperature humidity Altitude							

Photos





