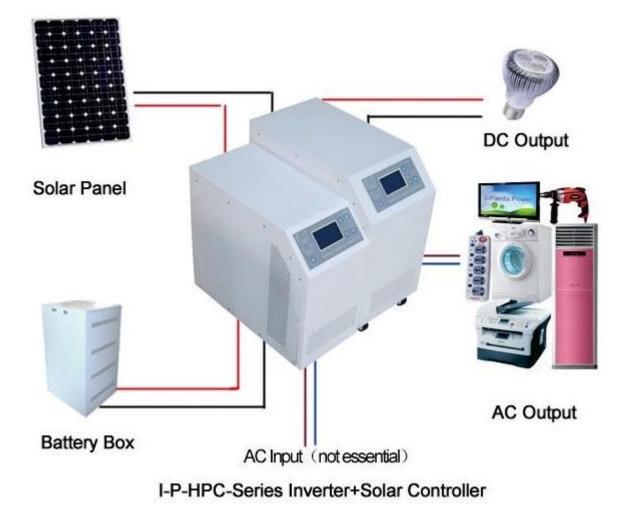
I-P-HPC-Series System

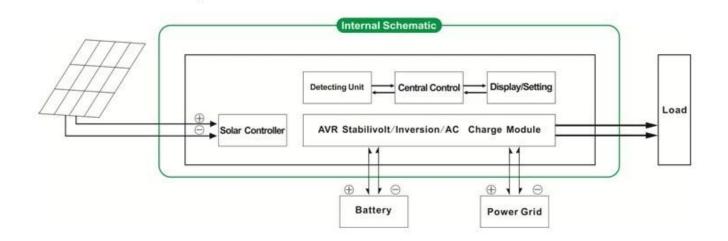


Introduction

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 functionThere 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

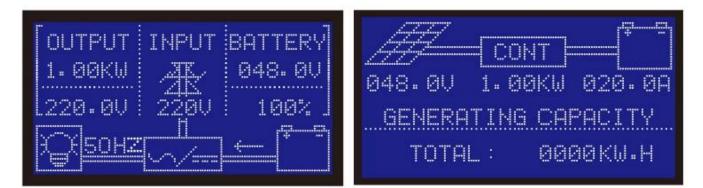
There are 2 kinds of timing mode:

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



Photos







Parameter

Parameter Model		1000W	1500W	2000W		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)	24V/48V(optional)		48V			
Charging Param	leter								
Charge Mode[]se	otting	PV charge	PV charge						
charge Modellse	etting	PV charge + utility	PV charge + utility charge						
MPPT Solar Controller	Voltage	24V	24V/48V			48V			
	Current	20A	25A	30A	40A	40A	40A		
	Max PV Input Voltage	100V	100V						
	PV Charge Efficiency	95%~99%	95%~99%						
	Marco DV (Januaria Darrow a	F (0)//	24V: 710W	24V: 852W	24V:1136 W	-2272W	2272W		
	Max PV Input Power	568W	48V1420W	48V: 1704W	48V: 2272W				
Utility	AC Charge Current	0~15A	0~15A						
	Charge Mode	3-Stage Charging	3-Stage Charging						
Inversion param	neter								
AC Output	Voltage	220V±3% or 230V±3 or 240V±3 or 110V±3% [optional]	8% or 100V±3%						
	Frequency	50Hz±0.5 or 60Hz±0.5 []optional[]							
		Pure sine wave output, waveform	ne wave output, waveform distortion rate≤3						
Overload ability		∏120% 1 min, ∏130% 10s							
Power Consumption			24V: 0.5A	24V: 0.7A 24V	: 0.7A	-0.6A	0.054		
(under normal working mode)		0.4A	48V: 0.4A		: 0.5A		0.65A		

Power Consumption		1-6W						
(under sleep mode)								
Inverter Conversion Efficiency		85%~92%						
Utility Mode								
AC Input	Voltage	220V±35% or 110V+35% Optional						
AC Input	Frequency	The same as utility						
AC Output	Voltage	220V±5% or 110V+5%[optional]						
AC Output	Frequency	The same as utility						
Overload Ability]120% 1 min[]130% 10s						
(AC first or DC first	t) priority							
UPS Output[setting]		AC first, DC standby						
		DC first, AC standby						
Switch Time		15ms [IAC to DC / DC to AC]						
Power On		Set by users						
[setting]		Timed open / close AC output automatically						
General Parameter	r							
Disalau	Display Mode	LCD+LED						
Display	Display Information	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°CП50°C						
Environment	humidity	10% []90%						
	Altitude	≤4000m						
Size W×D×H(mm)		438*208*413 450*246*468						
Packing Size W×D×H(mm)		520*310*460 540*300*518						
Net Weight (kg)		15 17 19 25 34 35						
Gross Weight (kg)								