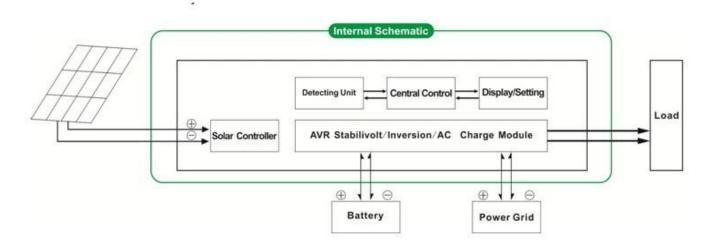
Introduction

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

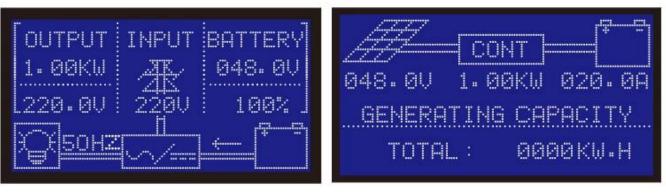
7.Strong load-carrying ability, low failure rate, easy to maintenance and long service life (under proper operation, it can last at least 5 years)

8.Perfect protection:low voltage protection, high voltage protection, over temperature protection, shortcircuit 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		
Battery (Lead-acid battery[]	24V	24V/48V(optional)			48V			
Charging Parameter								
Charge Mode[]setting[]	PV charge PV charge + utility 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	25/1		50/1	10/1	10/1	1071	
			95%~99%							
	Max PV Input Power		568W	24V: 710W		24V: 852W	w	2272W	2272W	
				48V1420W		48V: 1704\				
Utility	AC Charge Current		0~15A							
-	Charge Mode		3-Stage Charging							
Inversion parameter	r									
AC Output	Voltage	or 110V±3%		or 100V±3%						
	Frequency	50Hz±0.5 or 60Hz±0.5 (optional)								
Output wave type				onic Distortion THD≤3						
Overload ability		>120% 1 mii	n, >130% 10s							
Power Consumption (under normal work		0.4A		24V: 0.5A 48V: 0.4A			24V: 0.7A 48V: 0.5A	0.6A	0.65A	
Power Consumption (under sleep mode)		1-6W		•						
Inverter Conversion		85%~92%								
Utility Mode)									
AC Input	Voltage		or 110V+35%[]optiona	I <u>0</u>						
	Frequency		utility's frequency							
AC Output	Voltage		110V+5%[optional]							
	Frequency		utility's frequency							
Overload Ability		>120% 1 mii	n,>130% 10s							
(AC first or DC first)	priority									
		AC first, DC s DC first, AC s								
Switch Time		<5ms ПAC to	DC / DC to AC							
Power On		Set by users								
∏setting∏			off AC output automatically							
General Parameter		1)						
Dicplay	Display Mode	LCD+LED								
	Display Information		output voltage out	out frequency, battery cap	acity load condition	n status Inf	ormation			
Protection				e input, low-voltage input		., 200000 1111				
Environment	Temperature	-10°C∏50°C		,,	,					
	humidity	10% 190%								
	Altitude	≤4000m								
Size W×D×H(mm)	1	438*208*413	3					450*246*468		
Packing Size W×D×	H(mm)	520*310*460						540*300*518		
Net Weight (kg)		15	17		19	F	25	34	35	
Gross Weight (kg)		16	17		20		27	40	41	
JIUSS WEIGHL (KG)		10	10		20	4	<u> </u>	40	14T	

Picture

I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller



