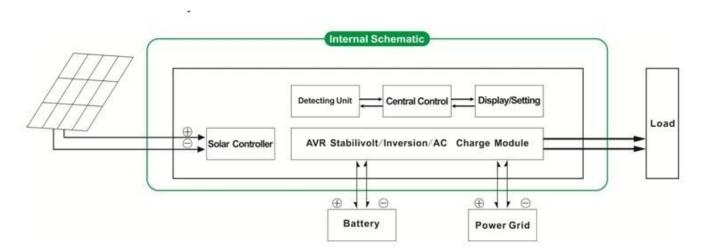
Introduction

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

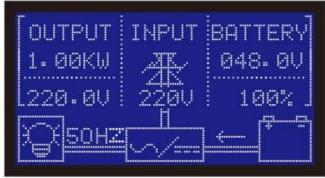


Feature

- 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		
Battery (Lead-acid battery[]	24V	24V/48V(optional)			48V			
Charging Parameter								
Charge Mode[]setting[]	PV charge							
charge Mode[[setting[]	PV charge + utility charge							

	Voltage		24V	24V/48V				48V		
MPPT Solar Controller	Current		20A	25A	30	Λ	40A	40A	40A	
	Max PV Input Voltage		100V	ZJA	50	м	HUA	40A	404	
	PV Charge Efficiency 95%~99%									
			568W	24V: 710W	24'	24V: 852W W		2272W		
	Max PV Input Power						48V:		2272W	
				48V1420W	48'	V: 1704W	2272W			
Utility	AC Charge Current		0~15A				22/200			
	Charge Mode		3-Stage Charging							
Inversion parameter			5 Stage Charging							
mirecolon parameter		220V+3% or	230V±3 or 240V±3% or 10	00V+3%						
AC Output	Voltage	or 110V±3%								
	Frequency	6. 170425 // (Optional) 50H2±0.5 or 60H2±0.5 (optional)								
Output wave type	,,		e output, Total Harmonic I	Distortion THD<3						
Overload ability		>120% 1 min								
Power Consumption			, =====================================	24V: 0.5A	24V: 0.7	7A 24V	0.7A			
(under normal working mode)		0.4A		48V: 0.4A	48V: 0.4	45A 48V	: 0.5A	0.6A	0.65A	
Power Consumption	J			1.2	1.0	1.0			!	
(under sleep mode)		1-6W	!							
Inverter Conversion	Efficiency	85%~92%								
Utility Mode	•	•								
AC Input	Voltage		r 110V+35%[]optional[]							
AC IIIput	Frequency		utility's frequency							
AC Output	Voltage		220V±5% or 110V+5%[optional]							
·	Frequency	The same as utility's frequency								
Overload Ability		>120% 1 min	ı,>130% 10s							
(AC first or DC first)	priority									
UPS Output[]setting[]	1	AC first, DC st								
		DC first, AC st								
Switch Time			DC / DC to AC[]							
Power On Set by users										
[setting[]			n / off AC output automatically							
General Parameter										
Display	Display Mode	LCD+LED								
1 ' '	Display Information	Input voltage, output voltage, output frequency, battery capacity, load condition, status Information								
Protection			ort-circuit, high-voltage inp	ut, low-voltage input, overh	eat					
Environment	Temperature	-10°C[]50°C								
	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)		16	18	20		27		40	41	

picture

I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller



