High quality Intelligent Inverter with Built-in MPPT Controller I-P-HPC series

I-P-HPC-Series System



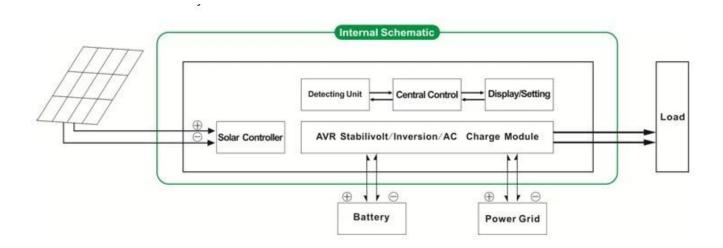
I-P-HPC-Series Inverter+Solar Controller

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. 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

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:

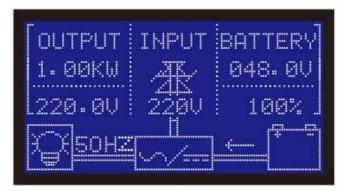
3.1 On/Off mode: Users can set specific time to turn on/off the output of the inverter.

- 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





Photos







Parameter

	1000W	1500W	2000W	3000W	4000W	5000W	
		130011	200000	POOLON	40000	PUUUVV	
Rated Output Power		1500W	2000W	3000W	4000W	5000W	
Peak Power		3000W	4000W	6000W	8000W	10000W	
Battery (Lead-acid battery[] Charging Parameter		24V/48V(optional)	24V/48V(optional)		48V		
Charge Mode[]setting[]		PV charge					
		PV charge + utility charge					
age	24V	24V/48V			48V		
ent	20A	25A	30A	40A	40A	40A	
PV Input Voltage	100V						
harge Efficiency	95%~99%	95%~99%					
DV Input Dawer	EGOM	24V: 710W	24V: 852W	w		2272W	
PV Input Power	Soow	48V1420W	48V: 1704W	48V: 2272W		227200	
harge Current	0~15A						
ge Mode	3-Stage Charging	3-Stage Charging					
	220V±3% or 230V±3 or 240V±3% or 100V±3% or 110V±3% (optional)						
uency	50Hz±0.5 or 60Hz±0.5 (optional)						
Output wave type Pure sine wa		ave output, Total Harmonic Distortion THD≤3					
Overload ability >120% 1 m		nin, >130% 10s					
Power Consumption (under normal working mode) 0.4A		24V: 0.5A 48V: 0.4A			-0.6A	0.65A	
e F	ent PV Input Voltage harge Efficiency PV Input Power harge Current ge Mode ge	PV charge + utility cf ge	2000W 3000W 24V 24V/48V(optional) PV charge PV charge + utility charge ge 24V 24V/48V 24V/48V 25A 25A PV Input Voltage 100V arge Efficiency 95%-99% PV Input Power 568W 24V: 710W 48V1420W 48V1420W 48V1420W ge 020V±3% or 230V±3 or 240V±3% or 100V±3% or 110V±3% (optional) pure sine wave output, Total Harmonic Distortion THD≤3 >120% 1 min, >130% 10s 24V: 0.5A	2000W 3000W 4000W 24V 24V/48V(optional) PV charge PV charge + utility charge ge 24V 24V/48V 24V/48V ge 24V/48V pv linput Voltage 100V arge Efficiency 95%-99% PV Input Power 568W 24V: 710W 24V: 852W 48V1420W 48V: 1704W harge Current 0-15A ge Mode 3-5tage Charging ge 220V±3% or 230V±3 or 240V±3% or 100V±3% or 110V±3% (optional) Pure sine wave output, Total Harmonic Distortion THD≤3 >120% 1 min, >130% 10s 24V: 0.5A 24V: 0.5A 24V: 0.7A 24V	2000W 3000W 4000W 6000W 24V	2000W 3000W 4000W 6000W 8000W 24V 24V 24V 24V 48V 6000W 8000W 48V	

Power Consumptio		1-6W						
(under sleep mode								
Inverter Conversio	n Efficiency	85%~92%						
Utility Mode								
	Voltage	220V±35% or 110V+35%[optional[
	Frequency	The same as utility's frequency						
AC Output	Voltage	220V±5% or 110V+5%[optional[]						
AC Output	Frequency	The same as utility's frequency						
Overload Ability	•	>120% 1 min,>130% 10s						
(AC first or DC first) priority							
UPS Output[]setting[]		AC first, DC standby						
		DC first, AC standby						
Switch Time	itch Time <5ms [AC to DC / DC to AC]							
Power On		Set by users						
		Timed on / off AC output automatically						
General Parameter	r							
Display	Display Mode	LCD+LED						
	Display Information	Input voltage, output voltage, output frequency, battery capacity, load condition, status Information						
Protection Overload, short-circuit, high-voltage input, low-voltage input, overheat								
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						
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