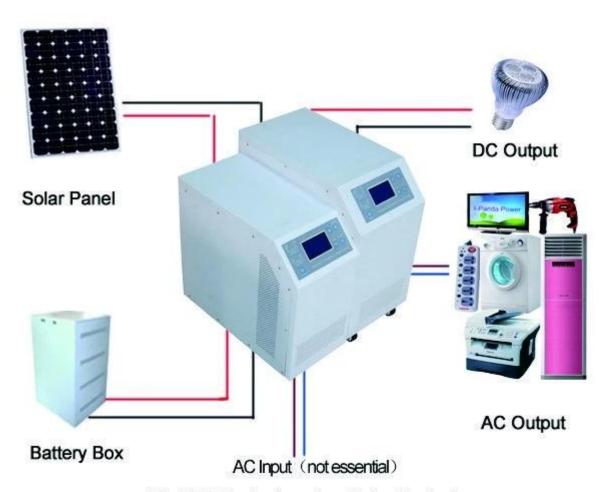
Introduction

Pure sine wave inverter with built-in <u>MPPT controller</u> 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

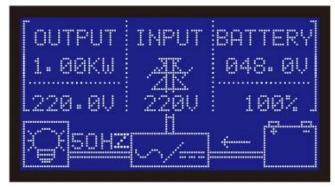
- 1.Off-grid solar power system
- 2. Solar and utility complementary power system

I-P-HPC-Series System



I-P-HPC-Series Inverter+Solar Controller

LCD display





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.
- 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

Danier Maria			100011	12.0004		200011	booow	400044	FOODM	
Parameter Model		1000W 1000W	1500W 1500W		2000W 2000W	3000W 3000W	4000W 4000W	5000W 5000W		
Rated Output Power										
Peak Power		2000W	3000W		4000W	6000W	8000W	10000W		
Battery (Lead-acid battery[]			24V/48V(optional)				48V			
Charging Parameter										
Charge Mode[setting	g[]		PV charge PV charge + utility charge							
MPPT Solar Controller	Voltage		24V	24V/48V				48V		
	Current		20A	25A		30A	40A	40A	40A	
	Max PV Input Voltage		100V	2571		5071	11071	1071	10/1	
	PV Charge Efficiency		95%-99%							
	Max PV Input Power		DAV-1126							
			568W	24V: 710W		24V: 852W	W	2272W	2272W	
	Max PV Input Power		DOOM	48V1420W		48V: 1704W	48V: 2272W		22/2W	
	AC Charge Current		0~15A				22/200			
Utility Charge Mode			3-Stage Charging							
Inversion paramete			p-stage charging							
inversion paramete	D20V423V or 220V42 or 240V423V or 100V429V									
AC Output	Voltage		220V13/W (220V13/W (100V13/W) (100V13/W) (100V13/W) (100V13/W (100V13/W) (100V13/W (100V13/W) (10							
	Frequency		1109±3% (Optional) 1109±3% (Optional) 1109±3% (Optional)							
			Fure sine wave output. Total Harmonic Distortion THD≤3							
			>120% 1 min, >130% 10s							
Power Consumption			DAV: 0.5A DAV: 0.7A DAV: 0.7A							
(under normal working mode)		0.4A		48V: 0.4A						
Power Consumption (under sleep mode)		1-6W								
Inverter Conversion Efficiency		85%~92%								
Utility Mode	Linciency	05/0-52/0								
_	Voltage	2201/+35% 0	% or 110V+35% optional							
AC Input	Frequency		110V+35 @[pptionali]							
	Voltage		110V+5%[optional]							
AC Output	Frequency	The same as	utility's frequency							
Overload Ability		his same as dumy 3 requesty								
(AC first or DC first)	priority		.,							
AC first DC standby										
UPS Output[]setting[]		DC first, AC standby								
Switch Time			5-ms AC to DC / DC to AC							
		Set by users								
∏setting∏			f AC output automatically							
General Parameter										
	Display Mode	LCD+LED								
Display	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*		438*208*413								
Packing Size W×D×H(mm) 52		520*310*460								
Net Weight (kg) 15		15	17	19		25		540*300*518 34	35	
Gross Weight (kg)		16	18	20		27		40	41	
								-		