Introduction

InDC/AC inversion mode, users can set this series of inverters to normal workingmode or sleep mode. In utility mode, it has Auto Voltage Regulation (AVR)function, utility charging function (AC first model) and UPS function. Thismultifunctional low frequency pure sine wave inverter has the advantages ofstable quality, strong load-carrying ability and long service life. It also can work in poor environment. It is thesecond generation of our low frequency pure sine wave inverter I-P-XD-series.

Features

1 pure sine wave output,full power

2[CPU control, intelligent control, modular design

3[LCD display variousparameters

4[]Multifunction design(AVR, UPS), extra charger is not needed and electric appliances can be protected.

5[External batteryconnection, it's convenient for users to expand use time and back-up power time

6[With super load carrying ability and high loadcapacity, this series of inverters cannot only drive resistance load; but also various kinds of inductive loads, suchas motor, air conditioner, electric drills, fluorescent lamp, gas lamp.

7[Low frequency circuit design, stable quality, low failure rate and longservice life (under proper operation, it can last at least 5 years)

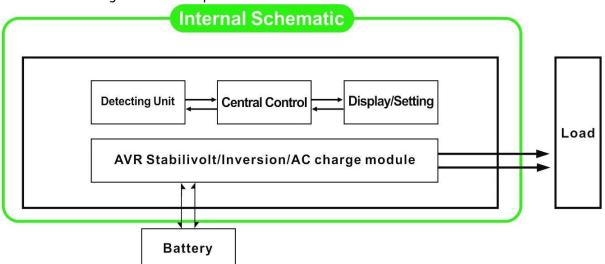
8[Perfect protection: lowvoltage protection, high voltage protection, over temperature protection, shortcircuitprotection, overload protection, alarm alert

9 CE / EMC / LVD/ RoHS Approvals

10 Two yearswarranty, life-long technical support

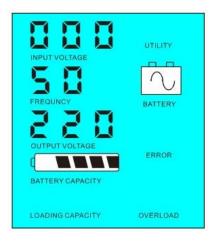
Function

1 DC to AC inversion function in inversion mode (only connected with batteries and loads) ,users can set it to normal working mode or sleep mode

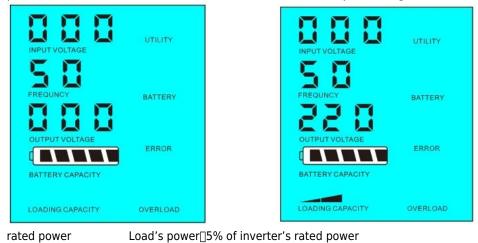


1.1 Normal working mode FREQUNCY in the LCD display is set to 01. No matter it's connected AC loads or

not, the inverter always convert DC to AC. It's ready to supply power to the AC loads. In this mode, the LCD will display output voltage as bellow:

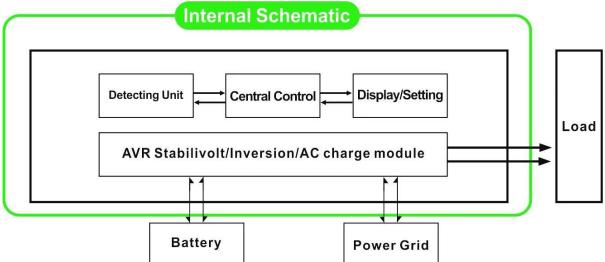


1.2 Sleep mode FREQUNCY in the LCD display is set as 02. If the power of the connected AC loads is lower than 5% of the inverter's rated power, there will be no output from the inverter. Only the chip of inverter is working. The power consumption of the inverter is only 1-6W. The LCD shows the output voltage 0. If the power of the connected loads is over 5%, then the inverter will automatically convert DC to AC to supply power for the loads within 5s. The LCD shows the output voltage. As shown below:



Load's power[]5% of inverter's

2[]UPS function When the inverter is connected to battery and utility, users can set it to utility first (AC first) battery standby mode or battery first (DC first)utility standy mode.



2.1 Utility first (AC first) battery standby mode : FREQUENCY in the LCD display is set to 01. When utility and battery are connected to the inverter, utility will supply power to the loads prior. When utility is cut off,

the battery will automatically continue to supply power via power inverter.

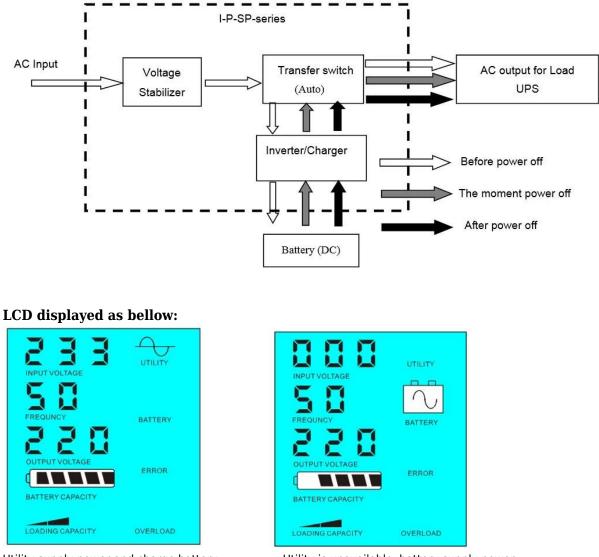
Steps are as follows:

Step 1: When utility is available, it will drive the loads directly after voltage being stabilized and at the same time charge batteries via power inverter .

Step 2: When utility is cut off, the inverter will convert DC to AC automatically to ensure uninterrupted power supply within 5ms.

Step 3: When utility is available again, inverter will automatically transfer to utility supplying power to loads and charge batteries via power inverter at the same time.

See Workflow as below.



Utility supply power and charge battery

Utility is unavailable, battery supply power

2.2 Battery first (DC first)utility standby UPS mode: FREQUENCY in the LCD display is set as 03. 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:

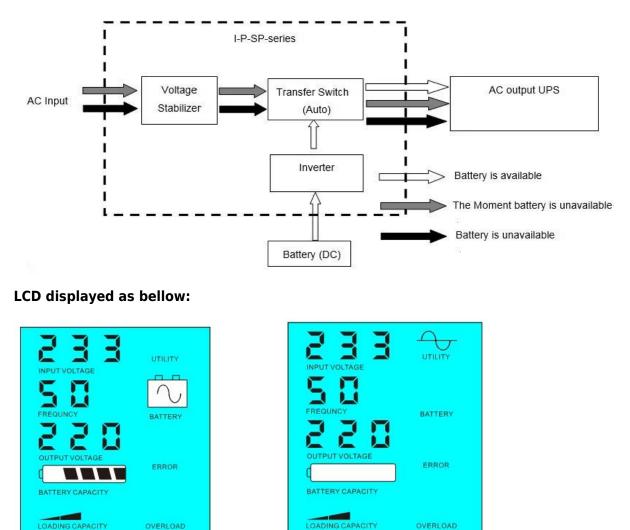
Step 1: When battery is available, it will drive the AC loads via power inverter.

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 via power inverter.

See Workflow as below



Battery is available

OVERLOAD

Battery is not available, utility supply power

OVERLOAD

Parameter

Model Param	eter	5000VA	
Rated Output Capacity		3500W	
Peak Power		7000W	
Battery Voltage(DC)		48V/96V/192V[]optional[]	
Size W×D×H(mm)		420*260*605	
Packing Size W×D×H(mm)		440*280*625	
Net Weight (kg)		31	
Gross Weight (kg)		33	
General Parameter			
Working Mode 1		Utility first (AC first) battery standby mode	
[Setting] 2		Sleep Mode,no utility,load's power higher than 5% of inverter rated output power,it will start to work automatically	

AC InputVoltage220V±35% or 110V+35% optional []AC InputFrequency50Hz±3% or 60Hz±3% optional []AC OutputVoltage220V±3% or 230V±3 or 240V±3% or 100V±3% or 110V±3% (optional)AC OutputFrequency50Hz±0.5 or 60Hz±0.5 (optional)AC Charge Current0~15ABattery chargeCharge TimeDepend on battery capacity and quantityBattery ProtectionAutomatic detection, Charge and discharge protection[Intelligent ManagementDisplayDisplay ModeLCDDisplayInput voltage[output voltage]output frequency[battery capacity]Load condition[Status InformationOutput Wave TypePure sine wave output, Total Harmonic Distortion THD≤3Overload Ability1120% 1 min[]130% 10sPower ConsumptionSleep Mode1~3AConversion Efficiency80%~90%		3	Battery first (DC first)utility standby UPS mode
AC input Frequency 50Hz±3% or 60Hz±3% [optional] AC Output Voltage 220V±3% or 230V±3 or 240V±3% or 100V±3% or 110V±3% or 110V±3% (optional) AC Output Frequency 50Hz±0.5 or 60Hz±0.5 (optional) AC Charge 0~15A Current 0~15A Battery charge Charge Time Depend on battery capacity and quantity Battery Automatic detection, Charge and discharge Protection protection[Intelligent Management Display Display Mode LCD Display Input voltage[output voltage[output frequency[]battery capacity[Load condition]Status Information Output Wave Type Pure sine wave output,Total Harmonic Distortion THD≤3 Overload Ability [120% 1 min][130% 10s Power Sleep Mode 1~6W Conversion Efficiency 80%~90%	AC Input	r	
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Consumption Normal Mode 1~3A Conversion Efficiency 80%~90%	Overload Ability		□120% 1 min□□130% 10s
Conversion Efficiency 80%~90%	Power	Sleep Mode	1~6W
	Consumption	Normal Mode	1~3A
Transfer Time U5ms DAC to DC / DC to ACD	Conversion Efficiency		80%~90%
	Transfer Time		5ms AC to DC / DC to AC
Overload ,Short-circuit,High input voltage,Low input	Protection		Overload ,Short-circuit,High input voltage,Low input
voltage,Overheat			voltage,Overheat
Temperature -10°C[]50°C		Temperature	-10°C□50°C
Environment Humidity 10%090%		Humidity	10%[]90%
Altitude ≤4000m		Altitude	≤4000m

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.

Others

Please see the outline of the design,technical documents,user manuals,product brochures, etc.Research and development department made 2th edition on May 5, 2014.







Company







