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 <u>pure sine wave inverter</u> has the advantages of stable 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,intelligentcontrol,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, short-circuit protection, overload protection, alarm alert

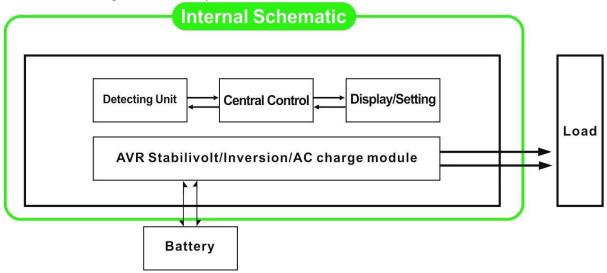
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☐CE / EMC / LVD/ RoHS Approvals

10 Two yearswarranty, life-long technical support

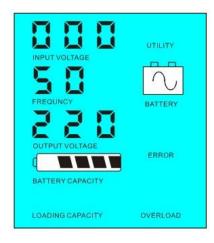
Function

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

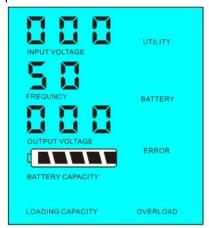


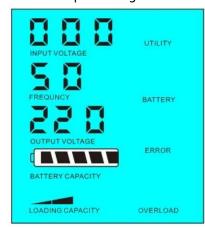
1.1 Normal working mode FREQUNCY in the LCD display is set to 01. No matter it's connected AC loads or

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:



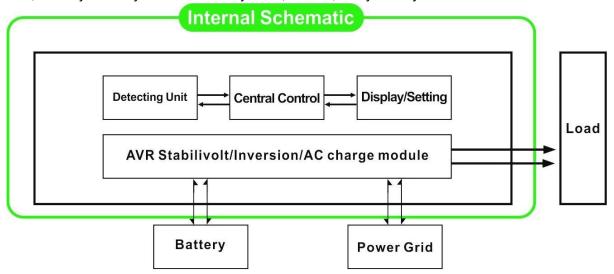


Load's power□5% of inverter's

rated power

Load's power 5% of inverter's rated power

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.



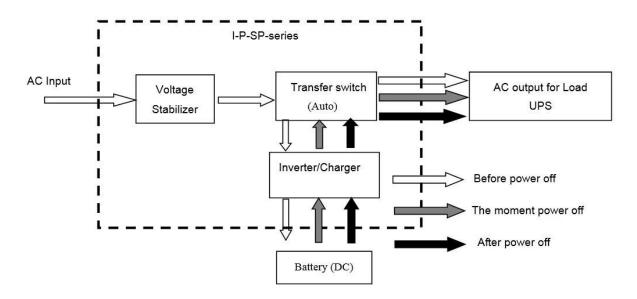
2.1 Utility first (AC first) battery standby mode: FREQUENCY in the LCD display is set to 01. When utility and battery are connected to the inverter, utility will supply power to the loads prior. When utility is cut off,

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

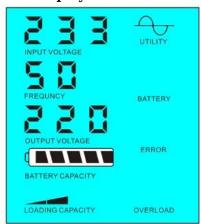
Steps are as follows:

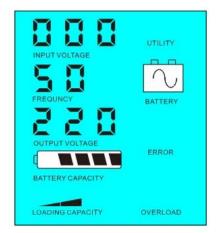
- Step 1: When utility is available, it will drive the loads directly after voltage being stabilized and at the same time charge batteries via power inverter .
- Step 2: When utility is cut off, the inverter will convert DC to AC automatically to ensure uninterrupted power supply within 5ms.
- Step 3: 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.



LCD displayed as bellow:





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.

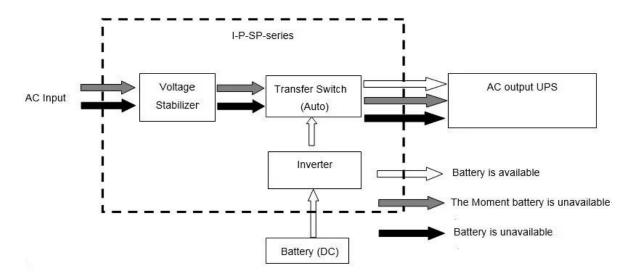
Steps are as follows:

- 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

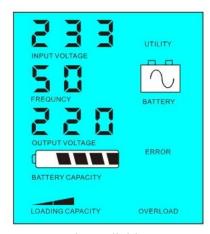
to the loads

Step 3: After the battery is fully charged (e.g. by <u>solar or wind charge controller</u>), it will automatically transfer to battery supplying power to the loads via power inverter.

See Workflow as below



LCD displayed as bellow:





Battery is available

Battery is not available, utility supply power

Parameter

Model Parameter	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

3	Battery first (DC first)utility standby UPS mode
Voltage	220V±35% or 110V+35%[optional]
Frequency	50Hz±3% or 60Hz±3% [optional]
Voltago	220V±3% or 230V±3 or 240V±3% or 100V±3% or
voitage	110V±3% (optional)
Frequency	50Hz±0.5 or 60Hz±0.5 (optional)
AC Charge Current	0~15A
Charge Time	Depend on battery capacity and quantity
Battery	Automatic detection, Charge and discharge
Protection	protection∏Intelligent Management
Display Mode	LCD
Display	Input voltage[]output voltage[]output frequency[]battery
Information	capacity_Load condition_Status Information
pe	Pure sine wave output,Total Harmonic Distortion THD≤3
	□120% 1 min□□130% 10s
Sleep Mode	1~6W
Normal Mode	1~3A
iency	80%~90%
	□5ms □AC to DC / DC to AC□
	Overload ,Short-circuit,High input voltage,Low input voltage,Overheat
Temperature	-10°C <u> </u> 50°C
Humidity	10%[]90%
Altitude	≤4000m
	Voltage Frequency Voltage Frequency AC Charge Current Charge Time Battery Protection Display Mode Display Information pe Sleep Mode Normal Mode iency Temperature Humidity

The above is our standard parameter. Subject to change without prior notice. We have our own <u>professional inverter</u> and <u>controller</u> 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







