Application

1. Back-up UPS systemfor industrial, commercial, household,etc

2. Mobile power andstandby power for areas that are lack of utility.

3. Off-grid solar &wind power system

3.1 SimpleOff-grid solar & wind power system

3.2 AC firstOff-grid solar & wind power system

3.3 DC firstOff-grid solar & wind power system

Features

1. pure sine wave output,full power

2. CPU management andcontrol,modulardesign

3. LCD display,can visually displayvarious parameters

4. Multifunction design,can set a variety ofworking mode

5. External battery connection,convenient to expand use time and back-up power time; user can connect as manybatteries as needed

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, etc. Itcan drive almost any kinds of load

7. Low frequency circuit design, good system stability, low failure rate andlong service life (under proper operation, it may be as long as 5 years)

8. Perfect protection:low voltage protection, over voltage protection, overheat protection, short-circuitprotection, overloads protection; alarm alert

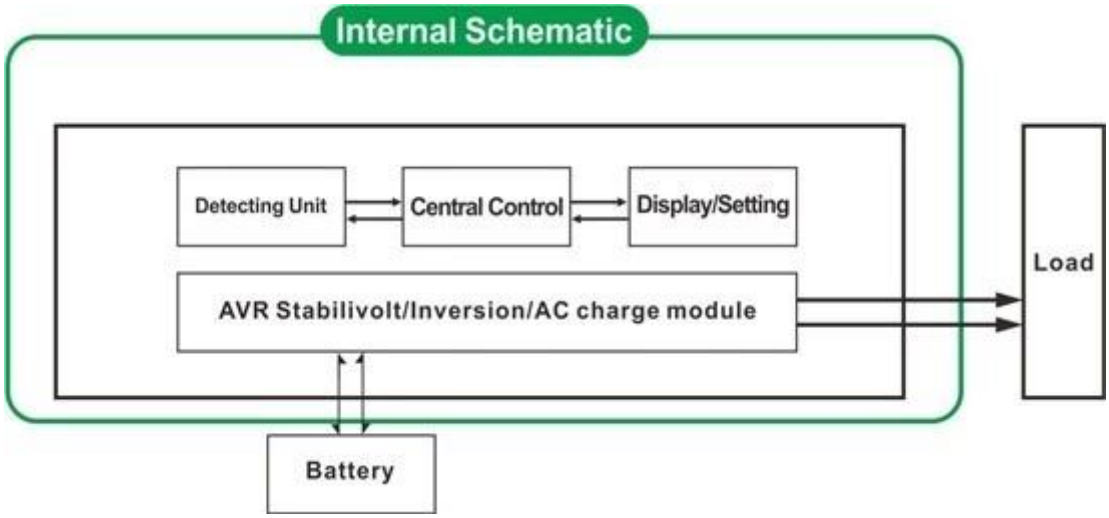
9. CE / EMC / LVD/ RoHS Approvals.

10. Two yearswarranty, life-long technical supports

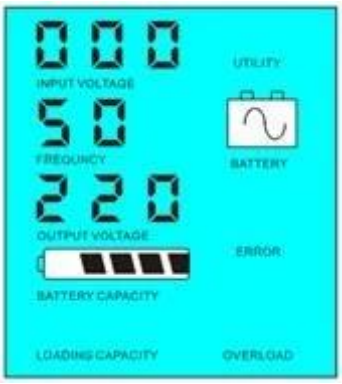
Function

1. Soleinversion function under inversion mode □only connected to battery□,can be set to normal

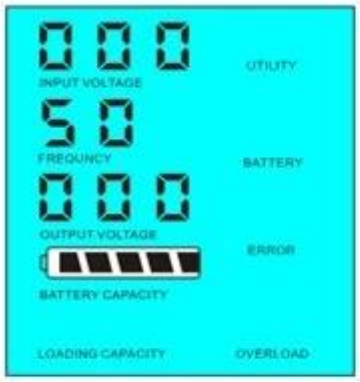
operating modeand sleep mode.



1.1 Normal working mode□FREQUNCY in the LCD display is set as01. No matter whether there are AC loads connected to the inverter or not, theinverter's output terminal will always have voltage ready to supply power tothe loads. Under this mode, the LCD will be displayed as bellow:



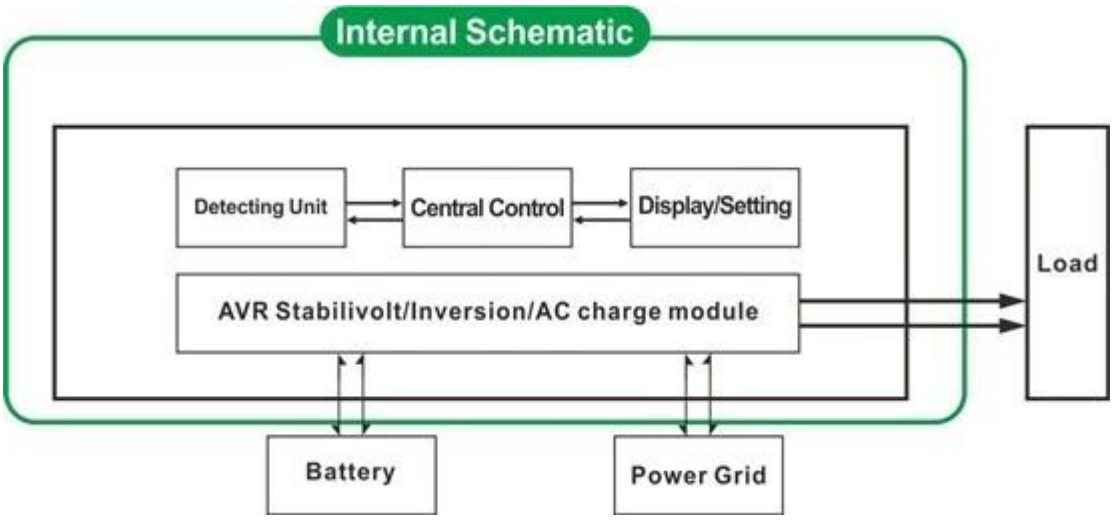
1.2 Sleepmode□FREQUNCY in the LCD displayis set as 02. If the power of the loads that connected to the inverter is lowerthan 5% of the inverter's rated power, there will be no output from theinverter. That is to say, only the chip of inverter is working under suchcondition and the power consumption is only 1-6W; If the power of the loadsthat connected to the inverter is higher than 5% of the inverter's rated power,then the inverter will automatically start the inversion function and supplypower to the loads within 5s. As shown below:



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

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

2. UPSfunction under utility mode(connectedto battery and utility .Can be set as utility first, battery standby mode and battery first, utility standby mode).



2.1 Utility first,battery standby UPS mode: FREQUENCY in the LCD display is set as 01. Whenboth utility and battery are connected to the inverter, utility willsupply power to the loads prior to the battery. When utility is cut off, thebattery will automatically continue to supply power after inversion.

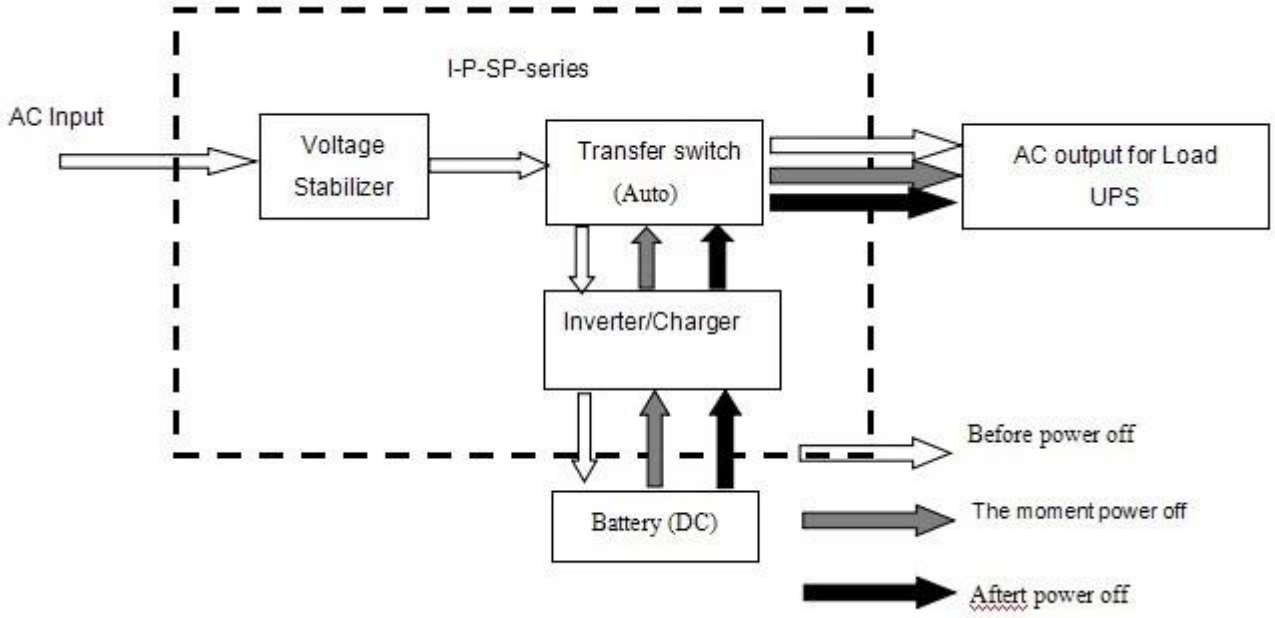
Steps are as follows:

Step 1: When utility power is available, itwill output directly after voltagebeing stabilized and charge batteriesat the same time.

Step2: When utility power is cut off suddenly, the inverter will convert DC power to AC power automatically toensure uninterrupted power supply within 5ms.

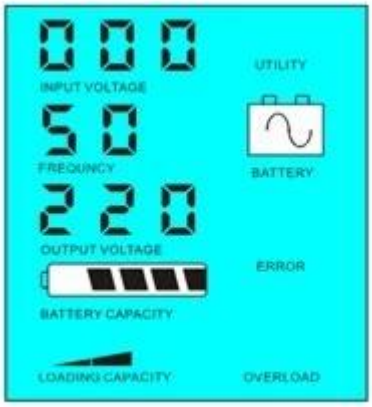
Step 3: When utility power becomes availableagain, it will automatically transfer to utility supplying powerto loads and charge batteries at the same time.

SeeWorkflow as below.



LCD displayed as bellow:

Utility supply power and charge battery



Without utility and battery supply power

2.2 Battery first, utility standby UPS mode: FREQUENCY in the LCDdisplay is set as 03. When both utilityand battery are connected to the inverter, battery will supply power to theloads prior to utility. When battery capacity is not enough, utility willcontinue to supply power automatically.

Steps are as follows:

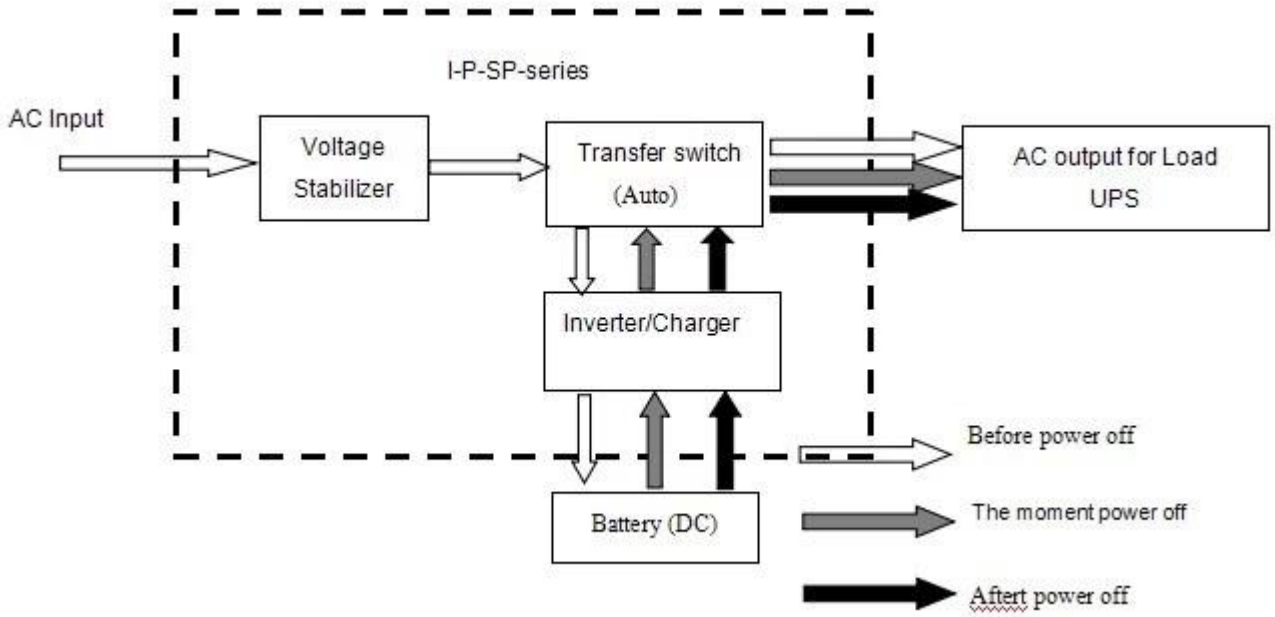
Step 1: When battery has enough power, it will supply powerto the loads directly

Step 2: When battery does not have enough power, it willautomatically transfer to utility supplying power

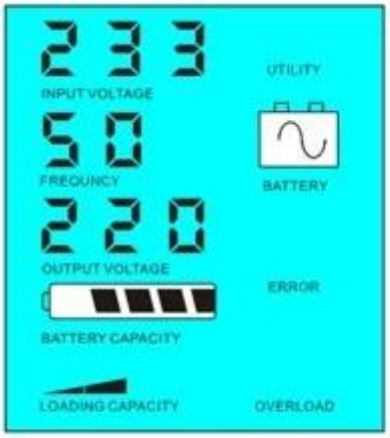
to the loads

Step 3: After the battery is fully charged (e.g. by solar orwind charge controller), it will then automatically transfer to batterysupplying power to the loads.

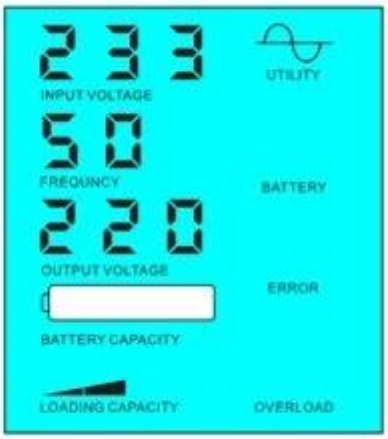
See Workflow as below.



LCD displayed as bellow:



Battery has power



Battery dead, utility supply power

Parameter

Mode Parameter	500VA	700VA	1000VA	1500VA	2000VA	3000VA	4000VA
Rated Output Capacity	350W	500W	700W	1000W	1500W	2000W	3000W
Peak Power	700W	1000W	1500W	2000W	3000W	4000W	6000W
Battery Voltage(DC)	12V/24V(optional)		24V		24V/48V/96V(optional)		
Size W×D×H(mm)	335*165*375				350*220*460		
Packing Size W×D×H(mm)	355*185*395				370*240*480		
Net Weight (kg)	7	8	12	14	20	23	29
Gross Weight (kg)	8	9	13	16	22	25	31
□							

Model Parameter	5000VA	6000VA	7000VA	10kVA	15kVA	20kVA	30kVA
Rated Output Capacity	3500W	4000W	5000W	7000W	10000W	15000W	20000W
Peak Power	7000W	8000W	10000W	14000W	20000W	30000W	40000W
Battery Voltage(DC)	48V/96V/192V□optional□			96V/192V□optional□		192V	
Size W×D×H(mm)	420*260*605					420*280*625	
Packing Size W×D×H(mm)	440*280*625					440*300*645	
Net Weight (kg)	31	50	50	55	85	105	125
Gross Weight (kg)	33	55	60	65	95	115	135

General Parameter		
Working Mode □Setting□ □	1	Utility First, Battery Standby
	2	Sleep Mode,no utility,load's power higher than 5% of rated power, start to work automatically
	3	Battery first, utility standby
AC Input	Voltage	220V±35% or 110V+35%□optional□
	Frequency	50Hz±3% or 60Hz±3% □optional□
AC Output	Voltage	220V±3% or 230V±3 or 240V±3% or 100V±3%
		or 110V±3% (optional)
	Frequency	50Hz±0.5 or 60Hz±0.5 (optional)
Battery charge	AC Charge Current	0~15A
	Charge Time	Depend on battery capacity and quantity
	Battery Protection	Automatic detection, Charge and discharge protection,Intelligent Management
Display	Display Mode	LCD
	Display Information	Input voltage,output voltage,output frequency,battery capacity,Load condition,Status Information
Output Wave Type		Pure sine wave output,waveform distortion rate≤3
Overload Ability		□120% 1 min,□130% 10s
Power Consumption	Sleep Mode	1~6W
	Normal Mode	1~3A
Conversion Efficiency		80%~90%
Transfer Time		□5ms □AC to DC / DC to AC□
Protection		Overload output,short-circuit,high-voltage input,low-voltage input,overheat
Environment	Temperature	-10℃□50℃
	Humidity	10%□90%
	Altitude	≤4000m

Remarks:

- 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 service.

Others:

1. Please refer to the outline design, technical documents, product brochures, etc.
2. Made by Engineering Department, May 5, 2014, 2nd Edition