Application

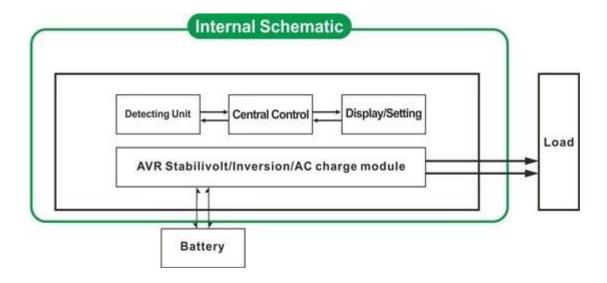
- 1. Back-up UPSsystem for industrial, commercial, household,etc
- 2. Mobile powerand standby power for areas that are lack of utility.
- 3. Off-grid solar& wind power system
- 3.1 SimpleOff-grid solar & wind power system
- 3.2 AC firstOff-grid solar & wind power system
- 3.3 DC firstOff-grid solar & wind power system

Features

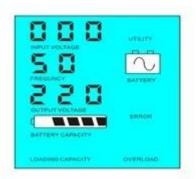
- 1. pure sine waveoutput, full power
- 2. CPU managementand control, modular design
- 3. LCD display, canvisually display various parameters
- 4. Multifunctiondesign, can set a variety of working mode
- 5. Externalbattery connection, convenient to expand use time and back-up power time; usercan connect as many batteries as needed
- 6. With super loadcarrying ability and high load capacity, this series of inverters can not only drive resistance load; but also various kinds of inductive loads, such as motor, air conditioner, electric drills, fluorescent lamp, gas lamp, etc. It can drive almost any kindsof load
- 7. Low frequencycircuit design, good system stability, low failure rate and long service life(under proper operation, it may be as long as 5 years)
- 8. Perfectprotection: low voltage protection, over voltage protection, overheatprotection, short-circuit protection, overloads protection; alarm alert
- 9. CE / EMC / LVD/RoHS Approvals.
- 10. Two years warranty, life-long technical supports

Function

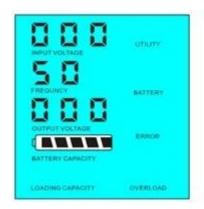
1. Sole inversion function under inversion mode \square only connected to battery \square , can be set to normal operating mode and sleep mode.



1.1 Normal workingmode FREQUNCY in the LCD display is set as 01.No matter whether there are AC loads connected to the inverter or not, theinverter's output terminal will always have voltageready to supply power to the loads. Under this mode, the LCD will be displayed bellow:



1.2 Sleep mode FREQUNCY in the LCD display is set as 02. If the power of the loads that connected to the inverter is lower than 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 such condition and the power consumption is only 1-6W; If the power of the loads that 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:

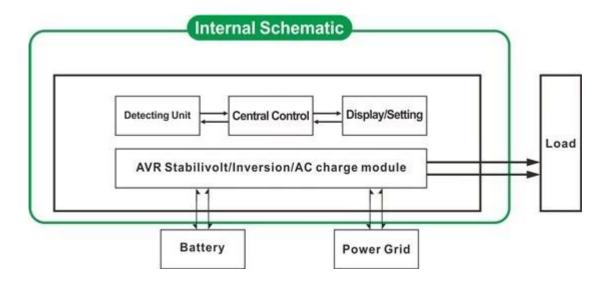




Load's power < 5% of inverter's rated power

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

2. UPSfunction under utility mode(connected to battery and utility .Can be set asutility first, battery standby mode and battery first, utility standby mode).

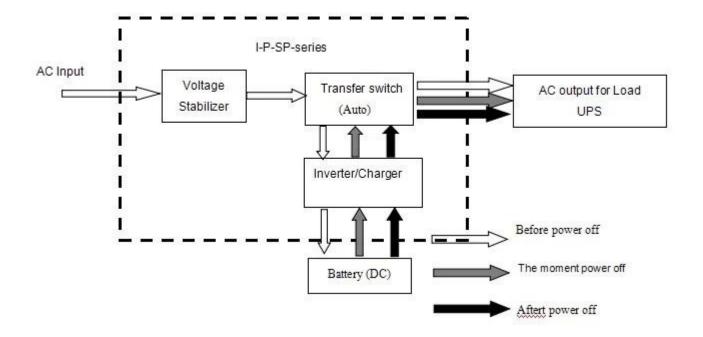


2.1 Utility first,battery standby UPS mode: FREQUENCY in the LCD display is set as 01. When bothutility and battery are connected to the inverter, utility will supply power to the loads prior to the battery. When utility is cut off, the battery willautomatically continue to supply power after inversion.

Steps are asfollows:

- Step 1: Whenutility power is available, it will output directly after voltagebeingstabilized and charge batteries at the same time.
- Step 2: Whenutility power is cut off suddenly, the inverter will convert DC power to ACpower automatically to ensure uninterrupted power supply within 5ms.
- Step 3: Whenutility power becomes available again, it will automatically transfer toutility supplying power to loads and charge batteries at the same time.

See Workflow asbelow.



LCD displayed asbellow:





Utility supply power and charge battery

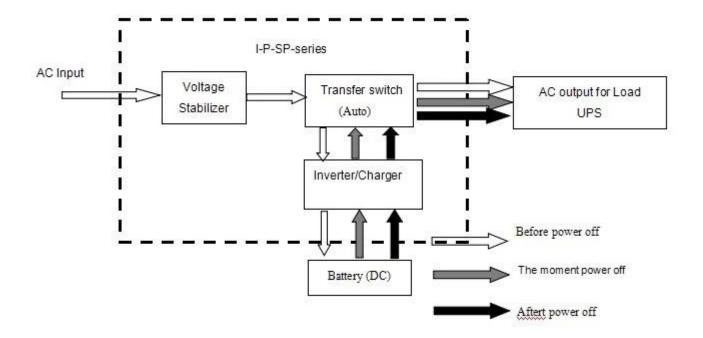
Without utility and battery supply power

2.2 Battery first,utility standby UPS mode: FREQUENCY in the LCD display is set as 03. When both 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 powerautomatically.

Steps are asfollows:

- Step 1: Whenbattery has enough power, it will supply power to the loads directly
- Step 2: Whenbattery does not have enough power, it will automatically transfer to utilitysupplying power to the loads
- Step 3: After thebattery is fully charged (e.g. by solar or wind charge controller), it willthen automatically transfer to battery supplying power to the loads.

See Workflow asbelow.



LCD displayed asbellow:



Battery has power



Battery dead, utility supply power

Parameter

Model	500VA
Parameter	
Rated Output Capacity	350W
Peak Power	700W
Battery Voltage(DC)	12V/24V(optional)
Size W×D×H(mm)	335*165*375
Packing Size W×D×H(mm)	355*185*395
Net Weight (kg)	7
Gross Weight (kg)	8
General Parameter	
Working Mode 1	Utility First, Battery Standby

2	Sleep Mode∏no utility∏load's power higher than 5% of
□Setting □ 2	rated power, start to work automatically
3	Battery first, utility standby
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)
AC Charge	0~15A
Current	U~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
rpe	Pure sine wave output waveform distortion rate≤3
	□120% 1 min□□130% 10s
Sleep Mode	1~6W
Normal Mode	1~3A
iency	80%~90%
	<pre>□5ms □AC to DC / DC to AC□</pre>
Protection	Overload output[]short-circuit[]high-voltage input[]low-
	voltage input□overheat
Temperature	-10°C <u></u> 50°C
Humidity	10%[]90%
Altitude	≤4000m
	Frequency Voltage Frequency AC Charge Current Charge Time Battery Protection Display Mode Display Information pe Sleep Mode Normal Mode iency Temperature Humidity

Remark

The "optional" parameter can be set as per customer's requirement

The above is our standard parameter. Subject to change withoutprior notice.

We have our ownprofessional inverter and controller R&D team and we provide technical support and OEM service.

Others

Please refer to the outline design, technical documents, product brochures, etc.

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