Application

- 1. Back-up UPS system for industrial, commercial, household, etc
- 2. Mobile power and standby power for areasthat are lack of utility.
- 3. Off-grid solar & wind power system
- 3.1 Simple Off-grid solar & wind powersystem
- 3.2 AC first Off-grid solar & windpower system
- 3.3 DC first Off-grid solar & windpower system

Features

- 1. pure sine wave output, full power
- 2. CPU management and control, modular design
- 3. LCD display, can visually display various parameters
- 4. Multifunction design, can set a variety of working mode

5. External battery connection, convenientto expand use time and back-up power time; user can connect as many batteriesas needed

6. With super load carrying ability and high load capacity, this series of inverterscan not only drive resistance load; but also various kinds of inductive loads, such as motor, air

conditioner, electric drills, fluorescentlamp, gas lamp, etc. It can drive almost any kinds of load.

7. Low frequency circuit design, goodsystem stability, low failure rate and long service life (under properoperation, it may be as long as 5 years)

8. Perfect protection: low voltageprotection, over voltage protection, overheat protection, shortcircuitprotection, overloads protection; alarm alert

- 9. CE / EMC / LVD/ RoHS Approvals.
- 10. Two years warranty, life-long technicalsupports

Function

1. Sole inversion function under inversion mode []only connected to battery [],can be set to normal operatingmode and sleep mode.



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



1.2 Sleep mode FREQUNCY in the LCD display is setas 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 the inverter. That is tosay, 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 supply power 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. UPS function under utility mode(connected to battery and utility .Can beset as utility first, battery standby mode and battery first, utility standbymode).



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 will automatically 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. Whenbattery 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.





Battery has power



Battery dead, utility supply power

Parameter

Model	Paramete	30KVA
Rated Output Capacity		20000W
Peak Power		40000W
Battery Voltage(DC)		192V
Size W×D×H(mm)		420*280*625
Packing Size W×D×H(mm)		440*300*645
Net Weight (kg)		125
Gross Weight (kg)		135
General Parame	eter	
Working Mode	1	Utility First, Battery Standby
[Setting]	2	Sleep Mode, no utility, load's power higher than 5% of rated power, start to work automatically
	3	Battery first, utility standby
	Voltage	220V±35% or 110V+35%[]optional[]
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% (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	Automatic detection, Charge and discharge
	Protection	protection, Intelligent Management
Display	Display Mode	LCD
	Display	Input voltage, output voltage, output frequency,
	Information	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	Sleep Mode	1~6W
Consumption	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°C[]50°C
	Humidity	10%[]90%
	Altitude	≤4000m

Remark

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

The above is ourstandard parameter. Subject to change without prior 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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