#### Features

1)Easy to install. To set up a solar system, customers simply plugwith solar panels and batteries.

2) CPUmanagement and control, modular design

3) LCDscreen, can visually display different parameters (such as output voltage, frequency, operating mode, etc.)

4) Multifunctiondesign, customers do not need to buy solar controller, charger, stabilizer, etc.

5)Connecting the external battery to extend the time convenient backup power; user canconnect as many batteries as needed according to local sun and light wind.

6)Great capacity and high capacity, this series of & amp; nbsp; Investors can not only lead resistance load;but also various types of inductive loads such as engine, air conditioning,electric drills, fluorescent lamps, gas, etc. It can handle almost any typeLoad

7) Undercircuit design frequency pure sine wave, good system stability, easy tomaintenance, low failure rate and long service life (in proper operation, It can be as long as five years)

8)Perfect protection: protection of low voltage, over voltage protection, overheatprotection, short circuit protection, overload protection

9)CE / EMC / LVD / RoHS / EMC approvals CCC

10)2 year warranty, technical supports lifelong

### Function

1 Sole investment function in the reverse mode (only connected to the battery), & amp; nbsp; can be set in the normal operating mode and sleep mode



1.1 & amp; nbsp; Normal working mode: FREQUENCYon the LCD screen is set to 01 No matter if AC loads connected investor or not, the inverteroutput terminal voltage will always be ready to supply power to the

loads.In this mode, the LCD screen will display as below:



1.2 & amp; nbsp; Sleep mode: FREQUENCYon the LCD screen is set to 02. If power loads that are connected tothe investor is less than 5% of Inverterrated power, there is no output of the inverter. That is, onlychip inverter is working in these conditions and energy consumptionit's just 1-6W; If the power of the loads connected to the inverter isthan 5% of the rated power of the inverter, the inverterautomatically starts the role of investment and supply power to the loads within5s. As shown below:



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



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

Systemintroduction in this way:

1)Only the solar panel charges the battery

2)Unique independent off-grid solar system; suitable for areas that are & amp; nbsp; & Amp; nbsp; & Amp; nbsp; & Amp; nbsp; lack of utility or are rich in solar energy



Two.UPS useful function underMode dad (connected tobattery and utility) can be useful to establish a principle, standby battery andBattery first standby useful.

2.1.Utility first UPS battery standby mode: the LCD frequency is set to01 When both the utility and the battery are connected to the inverter, utility willsupply power to the loads before the battery. When the utility is cut, thebattery to supply power automatically continue after the investment.

StepsThey are:

Step1: When power is available, it will be output immediately after stressstabilized and battery charging at the same time.

Step2: When the power fails suddenly, the inverter converts DCthe AC automatically to ensure uninterrupted power supply within 5ms.

Step3: When power becomes available again, it will automatically transferutility to supply power to the loads and charge batteries simultaneously.

ViewWorkflow as follows:



LCDappears as bellow:





Utility supply power and charge battery

Without utility and battery supply power

Systemintroduction in this way:

1)There are 2 ways to charge the battery, utility and solar panel

2)This system is suitable for power systems constructed in areas without utility orpropulsion systems that are frequently used in areas with / without utility

2.2.Battery first, expected utility UPS mode: frequency on the LCD screen is set to03. & amp; nbsp; When both the utility and battery areconnected to the inverter, battery will supply power to the loads beforeutility. When the battery capacity is not enough, utility will continue to deliverpower automatically.

StepsThey are:

Step1: When the battery has sufficient power, that will power loads directly

Step2: When the battery has sufficient power, will be automatically transferred toutility supply power to loads

Step3: After the battery is fully charged (eg by solar or wind loadcontroller), it will then automatically be transferred to the battery power supplyloads.

ViewWorkflow as follows:



LCDappears as bellow:



Battery has power and supply power



Systemintroduction in this way:

1)There is only one way to charge the battery: Solar panel

2)This system is suitable for areas where electricity is expensive and environmental areas where solar energy can be fully used to conserve power network, as solar Family & amp; amp; wind system and solar lantern & amp; amp; Wind system

## Parameter

Nominal Output Canacity		350W
Pico Power		700W
Battery Voltage (DC)		12V or 24V
Dattory Voltage (De	Voltage	12V or 24V
PWM Solar controller	Actual	104
	Max DV Input	12V System: 25V
	Voltago	24V System: 20V
Size W v D v H (mm)		235 * 165 * 375
Packing Size $W \times D \times H$ (mm)		355 * 185 * 305
Net Weight (kg)		7
Gross Weight (kg)		/ 8
Conoral Parameter		ο
		I Itility First standby battom
Work (Selection) Mode	1	Droom Similarly, no utility notion load avaading 5% of
	2	the nominal neuron start working automatically
	2	Rettory first nonding utility
	J Valta ga	Dattery first pending utility
AC Entrance	Voltage	$220 V \pm 35\% \text{ or } 110V \pm 35\% \text{ (Optional)}$
	Frequency	$50\pi Z \pm 3\%$ of $60\pi Z \pm 3\%$ (Optional)
AC Exit	Voltage	$220V \pm 3\% \text{ or } 240V \text{ or } 230V \pm 3 \pm 3\% \text{ or } \pm 100 \text{ V or}$
		$\frac{110 \text{ V} 3\% \pm 3\% \text{ (Optional)}}{50 \text{ Hz} + 0.5 \text{ (Optional)}}$
	Frequency	$50HZ \pm 0.5 \text{ or } 60 \text{ HZ} \pm 0.5 (Optional)$
Utility Receivables	AC Charging current	0 ~ 15A
	Load Time	It depends Capacity and quantity of battery
	Battery	Automatic detection, protection for loading and
	Protection	unloading, Intelligent Management
PV Load		Total PV input current must be less than the rated
		current
Display	Display Mode	LCD + LED
	Display	Entrance voltage, output voltage, output frequency,
	Information	battery capacity, state of charge, state information
Exit Wave mode		Pure sine wave output, rate≤3 waveform distortion
Overload Skill		& Gt; 120% 1 min, & gt; 130% 10s
Power	Dream Mode	1 ~ 6W
Consumption	Normal Mode	1 ~ 3
Conversion Efficiency		80% ~ 90%
Transfer Time		& Lt; 5 ms (AC to DC / DC to AC)
Protection		Overload output short circuit, high voltage input, low
		input voltage, overheating
Environment	Temperature	-10 °C ~ 50 °C
	Humidity	10% ~ 90%
	Altitude	≤4000m

- The above parameters with "o" means that the parameter has to do factory settings according to customer preference.
- We have our own professional driver and UPS inverter R & amp; amp; D and provide technical support and OEM service.
- The information above is the standard parameter controller of our company can be changed according to customer's requirement.

# ConnectionDiagram

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# Other

Pleasesee the outline design, technical documents, product brochures, etc

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