SINE WAVE INVERTER

EXTRA LINK

Please read and save this manual!

This manual is important instruction that you should follow during installation and maintenance of the inverter. Please read all instructions before operating the equipment and save this manual for future reference.

1.INTRODUCTION

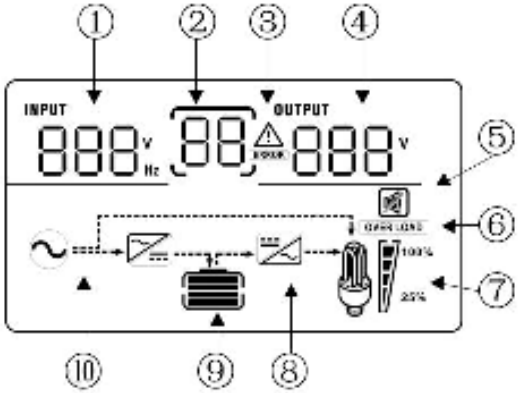
This is an advanced Line-interacti e inverter which provides pure sine wave power to your equipment. Unlike the traditional off-line inverter, this series also provides low harmonic distortion and has a very short transfer time when blackouts occur. It provides an efficiency over 98% under normal power condition. Two charge modes, quick charge and trickle charge, are provided to maintain the bateries in best condition.

2.MAIN FEATURES

*Pure sine wave output.
*Microprocessor based design.
*True Line-interacti e structure.
*Smart charging.
*Real time auto-detection for batery condition.
*Protection for overload, short circuit, & over temp.
*Isolation between batery and AC utilit.
*Outstanding dynamic performance.
*Speed control for cooling fan.

3.INDICATION

1. LCD Display：



1.Inpute voltage (AC mode);Output frequency (DC mode)
2.Work mode:
01 AC first
02 power save
03 DC first
3.Fault
4.Output voltage
5.Silent Display
6.Over load Display
7.Load Percentage
8.DC MODE Status
9.Batery Capacity
10.AC MODE Status

4.IMPORTANT SAFETY INSTRUCTIONS

*When replacing the bateries, use the same number and the same type of bateries.
*Do not dispose of bateries in a fire; the batery may explode.
*Do not open or mutil te the batery or bateries, released electrolyte is harmful to the skin and eyes.
*A batery can present a risk of electric shock and high short circuit current. The following precaution should
*Bateries will be disposed by the manufacturer or importer. Customers need to send them back with no charge for disposal.
voltage still may be accessible through supply of batery.
*The batery supply should be therefore disconnected in the plus and minus pole through or from the outer enclosure accessible batery fuses when maintenance or service work inside the inverter

is considered.
*The lead acid batery may cause chemical hazard.
*The batery presents a risk of electric shock and energy hazard.

5.TROUBLE SHOOTING

Problem	Possible Causes	Action to take
Inverter no reaction while AC is connected	1.Line cord plug is loose. 2. Breaker broken. 3. Dead wall socket.	1. Check the line cord plug. 2. Replace the breaker. 3. Check wall socket with a table lamp.
Power output is normal, inverter emits continuous beep, Load level indicator flickers	Inverter is overloaded	Turn off inverter and unplug excessive loads from inverter.
Inverter does not provide expected run time.	1.Excessive loads connectedat inverter's outlets 2.Batery is weak and can not provide enough	Do not operate the inverter. Leave the inverter plugged in for 10 hours. Then test it again. If inverter still can not provide expected run time, batery should be replaced.
Buton on front panel doesn't work.	1.The CPU inside inverter is not running correctly. 2.Buton damaged.	Unplug line cord and batery cord from the inverter to let it shut down automati ally, and plug line cord and batery cord again, if buton still fails, please call for service.
Inverter emits urgent beep, Batery capacity indicator flickers	Low batery	1. Charge bateries. 2. Replace bateries. 3. Call for service.
Inverter cannot DC start	1. Batery polarity wrong. 2. Batery wrong (over voltage). 3. Batery exhaustion. 4. Inverter fault.	1. Check batery and connection. 2. Check batery voltage by voltage meter. 3. Connect AC power cord to charge the batery. 4. Call for service.

6.Specificaation

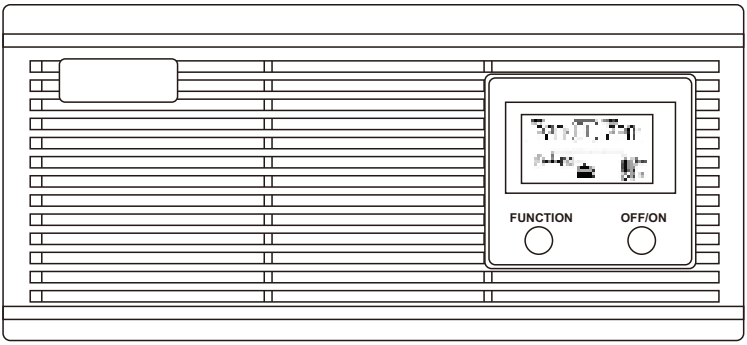
Model		SK12-500	SK12-600	SK12-800	SK12-1000	SK12-1200	SK12-1500	SK12-2000	SK12-3000
Rated Capacity(W)		400W	480W	640W	800W	1000W	1200W	1600W	2100W
Batery Voltage		12V					12V/24V	24V	
AC Input	Voltage	145V～275V / 85V～145V							
	Frequency	45Hz～65Hz							
AC Output	Voltage	110V±3% / 220V±3%(Batery mode)							
	Frequency	50/60Hz±0.5							
Output Waveform		Pure sine wave							
Total Harmonic Distortion(THD)		≤±3%							
Batery Recharge Current		10A-20A（Adjustable）							
Display		LCD							
Transfer Time		＜4ms							
Enviorment	Noise	≤55dB							
	Temperature	0℃～40℃							

	Humidity	10%～90%(no condense)	
Efficiency		≥85%	

7.OPERATION OF INVERTER

SAVE THESE INSTRUCTION. This manual is important instructions that you should follow during installation and maintenance of the inverter and bateries. Please read all instructions before operating the equipment and save this manual for future reference.
1.Connect the RED batery cable to the anode and the BLACK one to the cathode.
Batery cables are required to be connected with the anode and cathode tig tly. Short circuit between the anode and cathode, as well as the polarity reverse are strictly forbidden.
2.Connect your equipment to the inverter. To ensure that your equipment will be protected during a utility failure, it is important to make sure that the maximum power needed by the equipment is not over the rated capacity of the inverter. Alarm will beep if the load is over the rated value. Meantime, if the overload is severe, the inverter will shut down immediately for protecting itself.
3.DC start: During a blackout, push the buton for 4 seconds; then, the inverter will be turned on and enter into back-up mode. To turn off the power from inverter; please push the buton for 4 seconds.
4.Once it's connected with normal city power, the inverter will charge the batery automati ally, Please push the buton on the front panel for about 4 seconds to turn on the inverter .
5.Pushing the buton for 4 seconds to turn off the inverter. The inverter will keep charging the batery if the utility power is normal. Please pull out the power cord if you want to turn off the inverter completely.
6.Under back-up mode, when batery voltage is too low or too high, the inverter will emit alarm; if the voltage is too much low / high, the inverter will turn off itself automati ally.

8.FRONT PANEL



Electronic and electrical equipment marked with the above symbol should be recycled again. Used equipment with this marking should be returned to its manufacturer/importer/supplier or to collection centers for used electrical and electronic equipment. At the same time, the above label means that the equipment was placed on the market after August 13, 2005. Waste electrical and electronic equipment is not only waste that is often hazardous to the environment, which may contain substances, mixtures and hazardous components, but at the same time a material from which valuable raw materials such as iron, copper, tin, glass and even gold and silver can be recovered. Proper handling of waste electrical and electronic equipment will help protect the environment and human health from the negative consequences resulting from the possibility of hazardous components in the equipment.