

USER'S MANUAL

Uninterruptible Power System

GS400/GS600/GS800/GS1000/GS1200/GS1500/  
GS2000/GS1500PLUS/GS2000PLUS

SAFETY – WARNING

- The voltage inside UPS may be hazardous. Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Only factory service personnel may perform repairs.
- Internal battery voltage is 12Vdc. Sealed, lead-acid, 6 cells battery.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violating to local electrical codes.
- In the event of an emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the UPS.
- Do not allow liquids or any external objects to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit is designed for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is static or flowing water, or excessive humidity.
- Do not plug the UPS input into its own output.
- Do not attach a power strip or surge suppressor to the UPS.
- Do not connect non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- To reduce the risk of overheating the UPS, do not cover the UPS cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as air heaters or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- Do not dispose the batteries into fire as they may explode.
- Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:  
1)Remove watches, rings, or other metal objects from the hands.  
2)Use tools with insulated handles.  
3)Wear rubber gloves and boots.  
4)Do not lay tools or metal parts on top of batteries.  
5)Disconnect charging source prior to connecting or disconnecting batteries terminals.
- Servicing of batteries should be performed or supervised by technical and authorized personnel only.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery. The maximum ambient temperature rating is 40℃

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- During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.
- Beware of possibility of electric shock when disconnecting of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected from the plus and minus terminals of the battery when maintenance or service work inside the UPS is necessary.

INTRODUCTION

This UPS is specially designed for Personal Computer with multi-functions. Its light weight, compact design perfect fits to the limited working environment. This line interactive UPS is equipped with boost and buck AVR to stabilize output voltage range. It is also built-in with DC start function. This function enables the UPS to be started up without AC power supplied. Although it's a small UPS, The main features of UPS are listed below:

- Microprocessor control guarantees high reliability.
- Equipped with Boost and Buck AVR.
- Green Power Function for energy saving.
- DC Start Function.
- Auto restart while AC recovery.
- Compact size, Light Weight.
- Provides AC Overload protection.

TROUBLE SHOOTING

Symptom	Possible Cause	Proposed action
No LED display (for LED model), or no LCD lighting (for LCD model) on the front panel.	1.Battery weak.	1.Charge battery up to 8 hours.
	2.Battery defect.	2.Replace with the same type of battery.
	3.Power switch is not pressed	3.Press the power switch again.
Alarm buzzer beeps continuously when AC supply is normal.	UPS overload.	Verify that the load matches the UPS capability specified in the specs.
When power failure, back-up time is shorten.	1. UPS overload.	1.Remove some non-critical load.
	2. Battery voltage is too low.	2.Charge battery 8 hours or more.
	3. Battery defect due to high temperature operation environment, or improper operation to battery.	3.Replace with the same type of battery.
Mains normal but Battery Mode indicator lights (for LCD model),or Yellow LED is flashing (for LED model)	Power cord is loose.	Reconnect the power cord properly.

If any abnormal situations occur that are not listed above, please call service people immediately.

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1. Inspection

Remove the UPS from its packaging and inspect if it is any damage that may have occurred during shipping. If any damage happened, repack the unit and return it to the place of purchase.

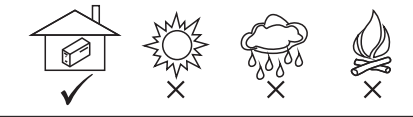
2. Charging

This unit is shipped from the factory with its internal battery fully charged, however, energy capacity may be lost during shipping and the battery should be recharged prior to use. Turn on the UPS, Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 6 hours with no load (no electrical devices such as computers, monitors, etc.) connected.

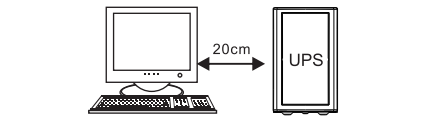


3. Placement

Install the UPS unit in any protected environment that provides adequate airflow around the unit, and is free from excessive dust, corrosive fumes and conductive contaminants. Do not operate your UPS in an environment where the ambient temperature or humidity is high.



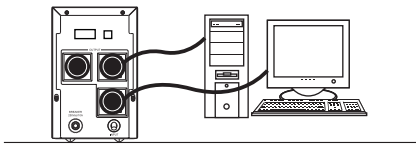
On the other hand, place the UPS away from the monitor at least 20cm to avoid interference.



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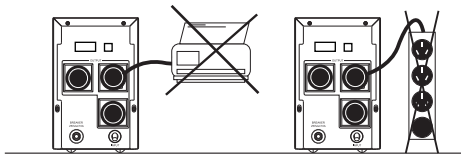
4. Connection

Plug the UPS into a 2-pole, 3-wire grounded receptacle. Then connect one computer-related device into each of the power receptacles supplied on the back of the UPS.



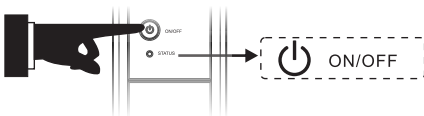
CAUTION

- Do not connect a Laser Printer or any non-computer peripherals to UPS outlets.
- Do not connect a surge suppressor power strip, or extension cord to the UPS outlet.



5. Turn On/Off

To turn on the UPS unit, press the power switch lightly. To turn off the UPS unit, press the power switch again.



6. DC Start

All Series are equipped with DC Start. To start the UPS when AC utility power is not available, simply press the power switch.

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SPECIFICATION

MODEL	GS400	GS600	GS800
CAPACITY	400VA/240W	600VA/360W	800VA/480W
INPUT			
Voltage	220Vac / 230Vac		
Voltage Range	140-290Vac / 140 ~ 300 Vac		
Frequency Range	>40 Hz (auto sensing)		
OUTPUT			
AC Voltage Regulation ( Batt, Mode)	220Vac / 230Vacs10%		
Frequency Range (Batt, Mode)	50Hz±1Hz or 60Hz±1Hz		
Transfer Time	Typical 4-8ms, 13ms max		
Waveform ( Batt, Mode)	Simulated Sine Wave		
BATTERY			
Battery Voltage	12V		
Battery number	4.5AH*1	7AH*1	9AH*1
Charge Current	1.0 A		
INDICATORS			
AC Mode	Green LED lighting		
Battery Mode	Yellow LED flash		
Fault	Red LED lighting		
PROTECTION			
Full Protection	short circuit, Overload , Overcharge and overdischarge protection		
ALARM			
Battery mode	Sounding every 10 seconds		
Low Battery	Sounding every second		
Overload	Sounding every 0.5 seconds		
Fault	Continuously sounding		
PHYSICAL			
Approx. Dimension D X W X H (mm)	255X86X140	306X86X140	
Approx. Net Weight (kg)	4.0	4.7	5.5
OPERATING ENVIRONMENT			
Humidity	0-90 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 40dB		
MANAGEMENT			
Communication port	For choice(USB&RJ45)		

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SPECIFICATION

MODEL	GS1000		GS1200		GS1500	
CAPACITY	1000VA/600W		1200VA/720W		1500VA/900W	
INPUT						
Voltage		220Vac / 230Vac				
Voltage Range		140-290Vac / 140 - 300 Vac				
Frequency Range		>40 Hz (auto sensing)				
OUTPUT						
AC Voltage Regulation ( Batt, Mode)		220Vac / 230Vacs10%				
Frequency Range (Batt, Mode)		50Hz±1Hz or 60Hz±1Hz				
Transfer Time		Typical 4-8ms, 13ms max				
Waveform (Batt, Mode)		Simulated Sine Wave				
BATTERY						
Battery Voltage		24V				
Battery number		7AH*2	7.5AH*2		9AH*2	
Charge Current		1.0 A				
INDICATORS						
AC Mode		Green LED lighting				
Battery Mode		Yellow LED flash				
Fault		Red LED lighting				
PROTECTION						
Full Protection		short circuit, Overload , Overcharge and overdischarge protection				
ALARM						
Battery mode		Sounding every 10 seconds				
Low Battery		Sounding every second				
Overload		Sounding every 0.5 seconds				
Fault		Continuously sounding				
PHYSICAL						
Approx. Dimension D X W X H (mm)		345X123X189				
Approx. Net Weight (kg)		8.7	9.6		11.23	
OPERATING ENVIRONMENT						
Humidity		0-90 % RH @ 0-40°C (non-condensing)				
Noise Level		Less than 40dB				
MANAGEMENT						
Communication port		For choice(USB&RJ45)				

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SPECIFICATION

MODEL	GS2000	GS1500 (PLUS)	GS2000 (PLUS)
CAPACITY	2000VA/1200W	1500VA/900W	2000VA/1200W
INPUT			
Voltage	220Vac / 230Vac		
Voltage Range	140-290Vac / 140 ~ 300 Vac		
Frequency Range	>40 Hz (auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	220Vac / 230Vacs±10%		
Frequency Range (Batt. Mode)	50Hz±1Hz or 60Hz±1Hz		
Transfer Time	Typical 4-8ms, 13ms max		
Waveform (Batt. Mode)	Simulated Sine Wave		
BATTERY			
Battery Voltage	24V		
Battery number	9AH*2		
Charge Current	1.0 A		
INDICATORS			
AC Mode	Green LED lighting		
Battery Mode	Yellow LED flash		
Fault	Red LED lighting		
PROTECTION			
Full Protection	short circuit, Overload , Overcharge and overdischarge protection		
ALARM			
Battery mode	Sounding every 10 seconds		
Low Battery	Sounding every second		
Overload	Sounding every 0.5 seconds		
Fault	Continuously sounding		
PHYSICAL			
Approx. Dimension D X W X H (mm)	345X123X189	380X125X225	
Approx. Net Weight (kgs)	11.95	12.5	13.1
OPERATING ENVIRONMENT			
Humidity	0-90 % RH @ 0-40°C (non-condensing)		
Noise Level	Less than 40dB		
MANAGEMENT			
Communication port	For choice(USB&RJ45)		

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131-023001-02

料 号:	131-023001-02
产品描述:	GS400-GS2000说明书 157g铜版纸 LED指示 中性英文和LOGO
版本号:	V1.1
尺 寸:	100x140mm
日 期 :	2020-11-03
制 图:	姚运飞
 山克新能源科技(深圳)有限公司 SHENZHEN SMARTKEY POWER CO.,LTD	