USER'S MANUAL

Uninterruptible Power System

GS400/GS600/GS800/GS1000/GS1200/GS1500/ GS2000/GS1500PLUS/GS2000PLUS/GS3000

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
- 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
- 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

 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.

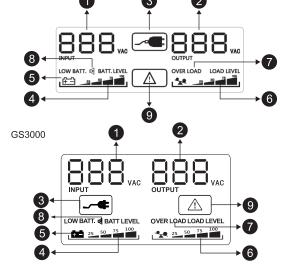
TROUBLE SHOOTING

Symptom	Possible Cause	Proposed action
No LED display (for	1.Battery weak.	1.Charge battery up to 8 hours.
LED model), or no LCD lighting (for	2.Battery defect.	Replace with the same type of battery.
LCD model) on the front panel.	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
	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.

LCD DISPLAY

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



- ① Input Voltage display
- ② Output Voltage display
- ③ AC mode (in normal mode, this LCD symbol lights; in AVR mode, this LCD symbol flashes; Battery mode, this LCD symbol conceal)
- (4) Battery Level (Battery capability)
- ⑤ Battery Low (when battery voltage is low, this LCD symbol flashes) 6 Load level (Load percent)
- ⑦ Over Load (when there is output over loading,this LCD symbol
- ® Mute (mute mode, this LCD symbol light. Click the power button for
- one second to realize or disable the battery mode mute.)

output shorted, over load, over charge)

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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

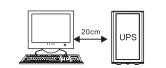
This unit is shipped from the factory with its internal battery fully charged, however, energy capacity may be lost during shipping and the battery should be recharged prior to use. Turn on the UPS, Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged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



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

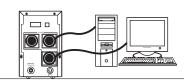


On the other hand, place the UPS away from the monitor at least 20cm to



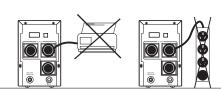
SPECIFICATION 4. Connection

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



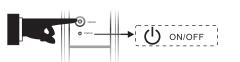
A CAUTION

• 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



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	GS1000
CAPACITY	400VA/240W	600VA/360W	800VA/480W	1000VA/600W
INPUT				
Voltage		220Vac / 230Vac		
Voltage Range		140-290Vac / 140 - 300 Vac		
Frequency Range	>40 Hz (auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	220Vac / 230Vac±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	12V		24V	
Battery number	4.5AH*1	7AH*1	9AH*1	7AH*2
Charge Current			1.0 A	
PROTECTION				
Fu I Protection	short circuit	Overload Overcha	arge and overdischar	ge 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 345X1:		345X123X189	
Approx. Net Weight (kgs)	4.0	4.7	5.5	8.7
OPERATING ENVIRONMENT				
Humidity	0-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 40dB			
MANAGEMENT				
Communication port	For choice(USB&RJ45)			

SPECIFICATION

MODEL	GS1200	GS1500	GS2000
CAPACITY	1200VA/720W	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 / 230Vac±10%	
Frequency Range (Batt. Mode)	50Hz±1Hz or 60Hz±1Hz		<u> </u>
Transfer Time	Typical 4-8ms, 13ms max		
Waveform (Batt. Mode)		Simulated Sine Wave	
BATTERY			
Battery Voltage	24V		
Battery number	7.5AH*2	9AI	H*2
Charge Current		1.0 A	
PROTECTION			
Full Protection	short circuit Ove	erload Overcharge and overd	ischarge 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)	9.6	11.23	11.95
OPERATING ENVIRONMENT			
Humidity	0-90 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 40dB		

SPECIFICATION

MODEL	GS1500 (PLUS)	GS2000 (PLUS)	GS3000
CAPACITY	1500VA/900W	2000VA/1200W	3000VA/1800
INPUT			
Voltage		220Vac / 230Vac	
Voltage Range		140-290Vac / 140 - 300 Va	ac
Frequency Range		>40 Hz (auto sensing)	
OUTPUT			
AC Voltage Regulation (Batt. Mode)		220Vac / 230Vac±10%	
Frequency Range (Batt. Mode)	50Hz±1Hz or 60Hz±1Hz		
Transfer Time	Typical 4-8ms, 13ms max		х
Waveform (Batt. Mode)		Simulated Sine Wave	
BATTERY			
Battery Voltage		24V	
Battery number	9AH*2		9AH*4
Charge Current	1.0) A	2.0 A
PROTECTION			
Fu l Protection	short circuit Qv	verload Qvercharge and over	rdischarge 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)	380X125X225		400*148*235
Approx. Net Weight (kg)	12.5	13.1	19.0
OPERATING ENVIRONMENT			
Humidity	0-90 % RH @ 0-40°C (non-condensing)		
Noise Level		Less than 40dB	
MANAGEMENT			
Communication port	For choice(USB&RJ45)		

料号:	131-019001-42	
产品描述:	GS400-GS3000(GS2000PLUSGS1500PLUS) 说明书 100*140mm 157g铜版纸中性英文无LOGO LCD指示	
版本号:	V1.1	
尺 寸:	100X140MM	
日期:	2020-11-30	
制图:	姚运飞	
▶ - / 〓 山克新能源科技(深圳)有限公司		

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