

### LCD DISPLAYS ON NORMAL MODE

Display interface is one page only, digital tube shows the input voltage and output voltage on the left and right sides .It will show the input voltage and output voltage all the time in normal. If the ups fault , voltage parameters are displayed for 7s, then alarm information is displayed for 3s.

Left digital tube	Alarm Cause	Right digital tube
ALA	Battery Voltage Too Low	27
	Battery Voltage Too High	28
	Overload	31
	Load time is enough to shut down	32
	Standard Model UPS With Loading 2 hours or Countdown of plan Shutdown time	33

In the event of UPS failure, please check the following and then contact your sales representatives:

1. Whether the UPS power cord is properly connected.
2. Whether the output fuse is blown.
3. Make sure the input voltage is compatible with this UPS system

When you call for services, please provide the following information:

1. The UPS type, series no. of UPS.
2. The date of problem appearance.
3. Explanation of the problem.

### SPECIFICATIONS

MODEL		600VA-2000VA
Input	Voltage	110Vac/220Vac $\pm$ 25%, (5% Adjustable)
	Frequency	50Hz or 60Hz $\pm$ 6%
Output	Frequency	50Hz or 60Hz $\pm$ 1%
	Voltage	110Vac/220Vac ( $\pm$ 10% Adjustable )
	Transfer time	<10msec ( 10 msec on system check)
	Wave form	Sine wave under municipal supply, square wave under battery operation
Protection	Load input	Fuse for overload & short circuit protection
	Short circuit	Fuse & current Limited & cut off
Battery	Backup time	15-35 mins depend on the load
	Type	Sealed Lead-Acid battery
	Protection	Auto-inspection, discharge protection and battery fault caution
	Battery	Normally battery is charge once three months; it isn't less than 6 hours once a time.
Audible Alarm	Battery supply power	Sufficient battery capacity, buzzer rings every 6 seconds red light flash
		Insufficient battery capacity, buzzer rings every 1 second, red light flashing
	Battery low Voltage or	Buzzer keep rings, red light on
	Overload/short circuit	Continuously

# USER'S MANUAL

**mivvy ENERGY<sup>®</sup>**

*Uninterruptible Power Supply*

## INTRODUCTION

A UPS is an advanced line interactive uninterruptible power system that is designed to protect your equipment like computers and telecommunication systems blackout when power off. Under normal power condition, the UPS filters out all small fluctuations. During electrical power failure the unit immediately switches to its internal battery for continued power feed to the equipment it is linked to, thus allowing the system to be shutdown correctly which, for example on a computer would prevent files from being left open and result in corruption.

## EASY OPERATION GUIDELINES

1. Plug the power cord from the UPS into a wall outlet. Paying attention to satisfy that the voltage, frequency of the input power that must be suitable for the UPS.

### CAUTION

Charge the battery for **at least 8 hours** before using the UPS. Battery will self-charge if only the UPS is connected.

2. Turn the main switch on (press & hold for 2 seconds.)

3. Plug the power cord of the system to be protected (e.g. computer, monitor, etc.) into the outlet of back panel and turn on the power.

**Do not connect laser printer to the UPS.** This is because the laser printers voltage load from these devices is very high and may cause a higher drain from the UPS than expected!

4. Ensure that the UPS is neither exposed to extremes of temperatures nor is placed in direct sunlight when in operation.

## INSTALLATION

### IMPORTANT

**The new UPS must be charged for at least 8 hours before use**

1. Please make sure the UPS has no visible damage. Your UPS should include the following within the shipping box:

The UPS/User's manual/AC fuses (for replacement)

2. Plug the computer power cord into UPS outlet

## OPERATION

1. Turn on the UPS from the front panel at least 2 seconds.

2. After the UPS has been switched on, the green light on.

3. If you wish to test UPS, you may turn off the input voltage to the UPS system. With the devices attached, the buzzer alarm on the UPS red light will on—the UPS is now on reserve power from its internal battery.

4. After completing the above test, please plug back the power cord of UPS into the wall socket!

## LED INDICATOR AND BUZZER WARNING

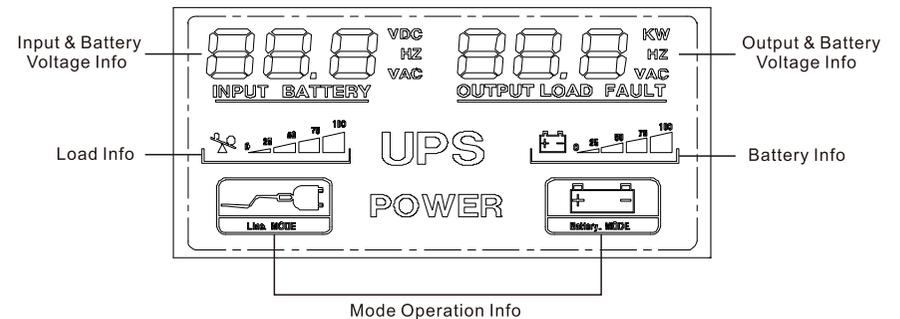
STATUS	LED	ALARM	NOTICE
Model	600VA-2000VA		
AC power supply	"  "		
	Light on green colour		
	"  "		
BATTERY (DC) power supply	Light on yellow colour every twenty seconds(charging)		
	"  "		
BATTERY exhausted warning	Light on yellow colour(battery full)		
BATTERY (DC) power supply	"  "	Ringing one time every 6 seconds	
BATTERY exhausted warning	"  "	Continuous ringing	To turn off the computer

## TROUBLES SHOOTING

The following table provides a list of trouble shooting tips:

PROBLEMS	POSSIBLE CAUSES	SOLUTIONS
LED not glowing	Input power fault	Check input power
	Fuse on the board and rear panel	Change the fuse and reset
	Time pressing key to open UPS is too short	Pressing "OPEN" must be over 3 seconds
Without utility power indicator, alarm beeps every 6 seconds	Power failed	Check input power
	Fuse on board and rear panel	Change the fuse and reset
Red LED light is on, beeping constantly	Overload/battery voltage is too low	Reduced load/charge UPS/call for service
Battery discharge is less than the standard	Battery charge not enough	After recharging 8 hours continuously, then test discharge time. If the trouble can't be solved yet, call for service
	Battery fault	
	Charge fault	

## LCD panel



## LCD FAULT DISPLAY

Error Code Shows After UPS Power Off

Err	Phenomena	Code
	Short Circuit or Wrong Phase Setting	105
	Battery Low	134
	Overload	102
	Full load running time is approaching, UPS is about to shut down	123
	Inverter Output Low	104