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› Uninterruptible Power Supply

User's Manual

INTRODUCTION

A Uninterruptible Power Supply is an advanced line interactive uninterruptible power system that is designed to protect your equipment like computer and telecommunication systems backup 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 be prevent files from being open and result corruption.

EASY OPERATION GUIDELINES

1. Plug the power cord from the UPS into a outlet. Paying attention to satisfy 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.

INTRODUCTION

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, which means the UPS is now on reserve power from its internal battery.

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

LED INDICATOR AND BUZZER WARNING

STATUS	LED	ALARM	NOTICE
Model	DH-PFM350-360/480/720/900-110-A		
AC power supply	"  "		
	Light on green colour		
	"  "		
	Light on yellow colour every twenty seconds(Charging)		
	"  "		
	No light on(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	

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

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

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

- The UPS type, series no of UPS.
- The data of problem appearance.
- Explanation of the problem.

SPECIFICATIONS

MODEL		DH-PFM350-			
		360-110-A	480-110-A	720-110-A	900-110-A
Input	Voltage	110Vac±25%,(5% adjustable)			
	Frequency	50Hz or 60Hz±6%			
Output	Frequency	50Hz or 60Hz±1%			
	Voltage	110Vac(±5% 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 charged 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 overload/short circuit	Buzzer keep rings, red light on			
		Continuously			
Physical	Weight(kg)	4.7	4.75	9.5	11.7