Uninterruptible Power Supply

User's Manual

(For D series)

Please read and save this manual!

Thank you for selecting this Uninterruptible Power Supply (UPS). It provides you with a perfect protection for connected equipments.

This manual is a guide to install and use the UPS. It includes important safety instructions for operation and correct installation of the UPS.

If you have any problems with the UPS, please refer to this manual before calling customer service.


This symbol gives information regarding points important for user's own health and safety, UPS operation and the safety of your data.


This symbol gives information, warnings, and other suggestions.

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1. Important Safety Instructions

This system has been designed to provide all the necessary safety conditions needed to protect electronic office equipment including information systems. In case of any questions, refer to your authorized technical service representative.

- In order to avoid any damage to the equipment, it is advised to transport it in its own packing.
- In the event of sudden temperature changes such as from cold to the normal working temperature, mist can form inside the UPS. It is absolutely essential that the UPS be dry before switching it on. Due to this reason wait for at least 2 hours before operating it.
- Once it's dry, make sure you observe all the conditions in the environment section of the technical specifications table, before introducing it into the circuit.




Without earth connection or unproved earth connected units are dangerous for user's health and have high risk of electronic circuit board faults. When installing the UPS to use cable with improper diameter can be dangerous for user health and safety of the unit.

- Place all the cables in a proper place so that they are not stepped on or get caught into people's feet. Before connecting the UPS to the circuit makes sure you carefully read all the instructions and warnings in the "Installation" section of this manual.
- Don't drop any foreign materials (like clips, nails etc...) into the equipment.
- In emergencies (damage to the cabin, front panel, or mains connections, splashing of liquid dropping of any foreign materials into the equipment) switch off the UPS, pull out the plug and inform the authorized service center.
- Do not connect any loads to the UPS, which exceed its power range.
- When input distortion or resistance is too high, UPS may not work properly.
- Keep the packing for maintenance or moving.




The UPS can only be repaired by the authorized technical service personnel. Any attempt to open and to repair by the user on his own could prove to be Dangerous.

Install the UPS in a controlled environment.
The controlled environment should accord with the requirement of the specification.

a. Do not install or operate your UPS in or near water.
b. Do not place UPS on an unstable cart, stand or table.
c. Do not place UPS under direct sunlight or close to heat emitting sources.
d. Do not place UPS power cord in any area where it may get damaged by heavy objects.



Placing magnetic storage media on top of the UPS may result in data corruption.

2. Introduction

The D series UPS can instantly switches your computer to emergency battery backup power and allows you to work through mains power outages without data loss or downtime. It continuously conditions the power coming into your computer and providing power supply for virtually zero interruption. This UPS is specially designed for PC users and also suitable for computer peripherals or POS. Build-In AVR function automatically adjusts itself to maintain a power supply of stable voltage when the utility power is of extra high or low voltage. High-performance surge suppression protects your computer from electrical noise and damaging power surges.

3. Special Features

● Big LCD Display
With Big LCD display, the user can get the status of UPS with a simple glimpse.
● Audible Alarms
Actively let you know if the unit is on battery mode, if the battery voltage is low, or if there is an overload condition.
● High Quality Battery
The selection of high quality sealed lead-acid maintenance free battery maximizes the life span of the battery for enhanced economic benefits.
● Automatic Voltage Regulation
Corrects high- and low-voltages, without draining the battery. This preserves battery resources and ensures your UPS will provide the optimum runtime during a complete blackout.
Battery Protection
Battery over-discharge protection to expand the lifespan of Battery
● High Voltage, Low Voltage, Overload and Surge Protection
Shields the UPS and connected appliances from damage.
● Automatic Charging Battery
Without UPS switching on, it can charge the battery automatically once it's connected to the mains.

4. Before Installation

Every UPS was tested 100% before shipment, check if the UPS has been subjected to any damage after unpacking it according to the follow steps:

A. Contents

Delivered pack includes:

a.	UPS	1 piece
b.	User's manual	1 piece
c.	Fuse	2 piece(optional)
d.	Communication Cable (RS232/USB)	1 piece (optional)
d.	Software CD	1 piece(optional)

B. Visual Observation

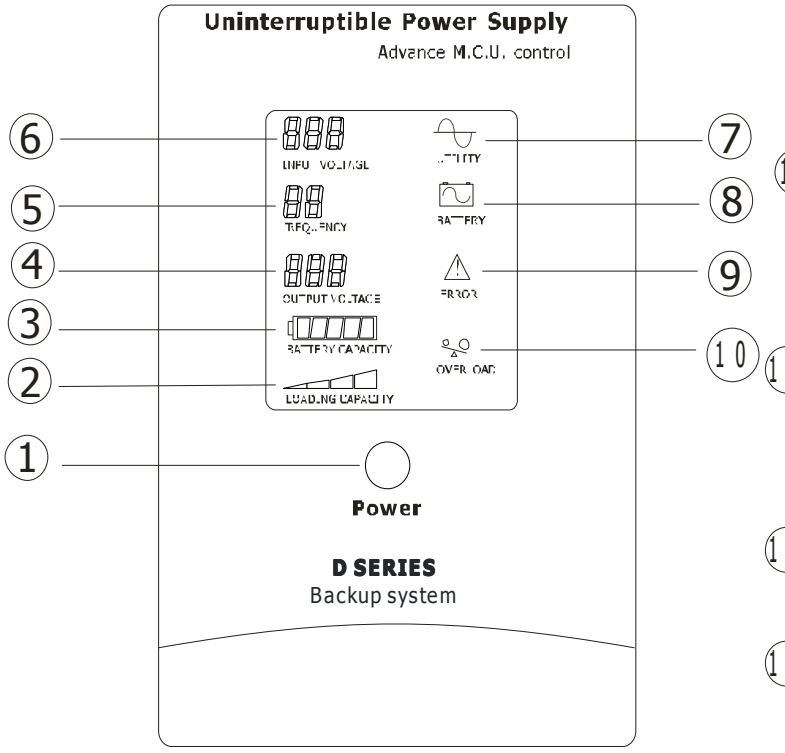
a. Check the name plate to verify the rated capacity is according to your purchase order.
b. Make sure appearance of the UPS is not damaged. If you notice any damage, contact to

transportation comapny and the authorized dealer.

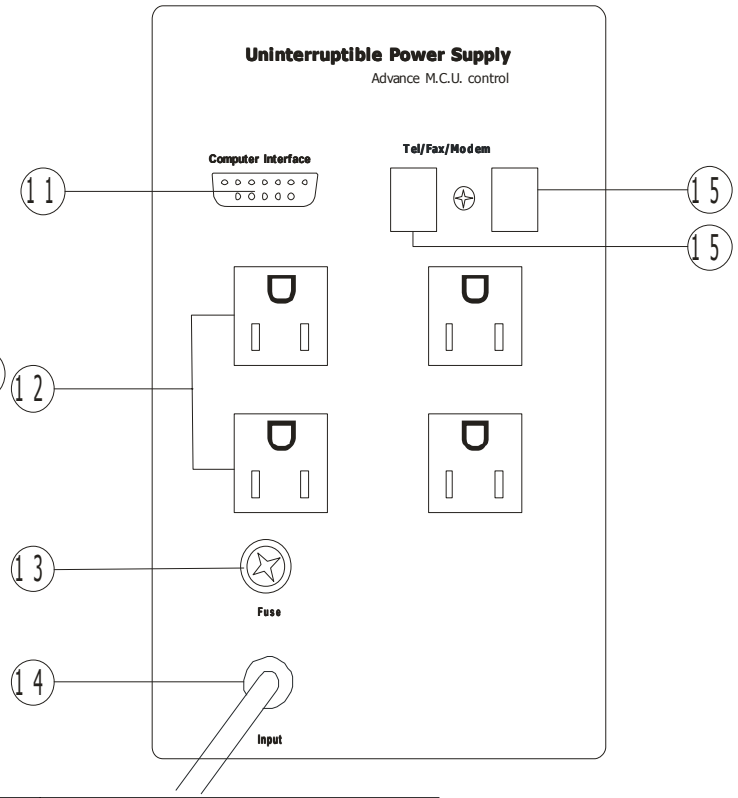
Do not try to repair the UPS by yourself!

5. Knowing the UPS

Front of UPS



Back of UPS



No.	Part Name/Status	Content
1	Power Switch	Power on/off
2	Loading Capacity	-
3	Battery Capacity	-
4	Output Voltage	-
5	Output Frequency	-
6	Input Voltage	-
7	Utility Mode	Icon will appear
8	Battery Mode	Icon will appear
9	Error	Icon will appear
10	Overload	Icon will appear
11	RS232/USB Communication Port	*optional
12	Output Socket	-
13	Fuse/Circuit Breaker	-
14	Input Power Cord	-
15	RJ11/RJ45 protection port	*optional

6. Operation of the UPS

a. Connect the Electrical Appliances to UPS

Make sure all appliances are turned "OFF" and connect the electrical appliances to the UPS

b. Connect UPS to Electrical Mains

Plug the AC mains cord to wall mains socket.

c. Switch on the UPS

Press and hold the POWER button more than 1 second until hearing one beep sound to switch the UPS on. When it is switched on, the LCD displayer will illuminate.

d. Switch "ON" the Appliance One by One

e. Switch off the UPS

By pressing and hold the POWER button more than 1 second.

f. When Fuse Blows

If the fuse blows when mains power and the appliances are "ON" then it means the UPS is overloaded. Too many appliances plugged in drawing too much power. Decrease the loading by unplugging appliances.

Replace the blown fuse ONLY with new fuse having the same rating.

Wait a few minutes then switch power "ON" position.

Then switch "ON" the appliances one by one ensuring that their combined rated power does not exceed the UPS rating.

7. Audible Alarm and Protections

Backup Mode(slow alarm)

In backup mode, the "Yellow LED" illuminates and the buzzer emit beeping sound every four seconds.

Battery Low Voltage Protection(rapid alarm)

In backup mode, when the battery is empty (10.3V+/-0.3V), the buzzer beeps rapidly about 1 minute, then UPS shuts down automatically.

Overload Protection

In mains mode, if it is overloaded (110%~120%), the buzzer will beep once every 4 seconds till the overload is elimilated.

In Battery backup mode, if it is overloaded (110%~120%), the UPS will shut down immediately without beeping.

High Voltage/Low Voltage Protection

When the input is out of range, the UPS will turn into battery backup mode automatically.

8. Placement

For safety and better performance and lifespan, please handle and place the UPS according to the follow instructions:

a. Moving

- Cut off input; remove all wires connected to the UPS
- Do not move the UPS upside down
- Rough handling is prohibited

b. Environmental

● Carry the unit to a suitable location to install it. Keep away from unstable base or sources of excessive vibration.
● Do not place the UPS to direct sunlight or excessive humidity.
● Keep away from fire, heat sources.
● Keep the UPS in well ventilated place. Leave at least a distance of 10 cm between the UPS and the walls in order to maintain adequate air-flow.
● Operating Temperature: -10˚C~40˚C
● Operating Humidity: 0~90% (Non-condensing)
● Keep away from corrosive gas or fluid.



Install the UPS in a cool, dry, clean place away from windows, dust, moisture and cold .To prevent fire or electrical shock, do not expose this unit to rain or water.

9. Maintenance

This UPS is basically maintenance free! But regular maintainance can extend lifespan of the UPS by the follow steps:

a. Regular Inspection

● Shut down the UPS completely, maintenance should not be operated when UPS is working.
● Use cotton cloth and detergent to clear the body and ventilation holes.

b. Extraordinary Inspection

● When malfunction occurs, or the UPS is abnormal, please measure and check the parameters, refer to the authorized dealer if needed.
● In thunder, lightning or rainy season, extraordinary inspection should be executed to prevent malfunction.

c. Maintenance of Battery

● With correct using, the lifespan of the battery can last for three to six years, depending on times of discharge and temperature. Replacement and servicing of the battery should be performed or supervised by personnel knowledgeable of batteries and their precautions. Keep unauthorized persons away.
● Charge the battery every 3 months if you don't use the UPS for a long time.

10. Other

This user's manual is only for D series uninterruptible power supply.
This UPS is designed and made in accordance with strict standards and quality control system, but if apply to purposes may cause any dangerous to human or other lives, include but not limited to the follow case, please refer to the seller.

a. Apply to traffic system;
b. Apply to medical purpose;
c. Apply to nuclear power system;
d. Apply to aviation and aerospace;
e. Apply to all kinds of safety devices;
f. Other special usages.

11. Specification

Technology		Line interactive
Input	Input voltage range	145V~275V or 165V~275V Please refer to rating label of UPS
	Voltage rating	110V/120V/220V/230V/240V optional, Please refer to rating label of UPS
	Input Frequency	50/60Hz +/- 5Hz
	Phase	Single phase + Grounding
Output	Power capacity	Please refer to the rating label of UPS
	Output voltage	
	Wave form	Modified sine wave
	Power factor	0.6
	Loading	PC, workstation, network & peripheral
Efficiency	AC/AC	>80%
Transfer time		<8mS
Battery	Battery voltage	Please refer to the rating label of label
	Battery type	Sealed Lead Acid battery, maintain free
	Backup time	Half load for 14 min (about)
		Full load for 3.0 min (about)
	Recharge time	<8 hours (90%)
Audible Alarm	Buzzer	Battery Backup Mode, Battery Low Voltage; Overload
Protection	AC input abnormal	High voltage; Low voltage; Surge; Spike
	Output overload	shut down UPS automatically
	Battery low voltage	Single battery voltage < 10.3 VDC±0.3 UPS shut down automatically
	Short circuit	Fuse or Circuit Breaker
Noise	1 meter distance	< 45dB（at 1m distance）
Environmental	Operating Environment	-10℃~40℃
	Storage Temperature	-15℃~45℃
	Relative Humidity	10%RH~90%RH Non-condensing
Physical	Size（mm）	Please refer to the rating label
	Wight（Kg）	

Remarks:
We reserve the right to change specifications or discontinue models without notice.

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