

DT-UPS-1200 User Manual










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1 Description of Commonly Used Symbols/Safety Instructions

1.1 Symbol Descriptions

Symbol & Description	
Symbol	Description
	Caution, danger
	Danger electric shock
	Alternating current (AC)
	Direct current (DC)
	Protective ground
	Recycle
	Do not dispose with ordinary trash

1.2 Safety Instructions

1. Read this manual carefully and thoroughly before operation the UPS and save this manual properly for future reference.
2. Do not tear up or remove the warning label on UPS device and be aware of the content.
3. Please do not overload the UPS.
4. The UPS contains large capacity batteries. The case of the UPS must not be opened by untrained personnel. Otherwise, it may cause electric shock.
5. Do not short the positive and negative electrodes of battery. Otherwise, it may cause electric shock or fire.
6. Do not plunge or insert any objects into the air vents and other inlets.
7. Do not store or use the device in the following environment:
 - a. Where there is inflammable gas, corrosive agents or heavy dust
 - b. Where the temperature is very high or low (above 140°F (40°C) or below 32°F (0°C) or the humidity is very high (more than 90%))
 - c. Under direct sunlight or close to heating facilities.
 - d. Place of strong vibrations
8. In the event of fire occurring in the vicinity, please use dry powder fire extinguishers .The use of liquid fire extinguishing agents may cause electric shock.

2 Installation and Operation

Before installation, please read and understand the following instructions.

Inspect the following items inside box:

- User's Manual
- UPS

3 Unpack and Inspection

Examine the packing carton for damage. Notify your dealer immediately if damage is observed. Store the packing in a safe place for possible future shipment of the UPS.

4 Placing the UPS

Position the UPS on a sturdy, dry surface in a well-ventilated area away from direct sources of heat. Leave at least 3.9" (100mm) clearance all around the UPS to provide adequate ventilation (Reference figure 1).

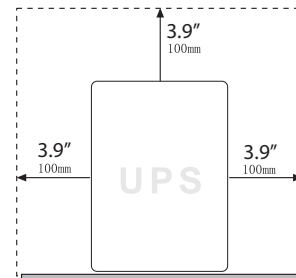


Figure 1

The UPS is intended for indoor use only.

Although your UPS is very rugged, its internal components are not sealed from the environment.

Please kindly note the following (Reference figure 2).

- Avoid direct sunlight
- Avoid excessive heat
- Avoid excessive humidity or liquids
- Avoid excessive dust

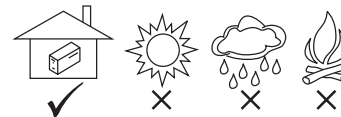


Figure 2

5 Connect The UPS To A 110VAC Power Outlet

Connect the Power Cord to a verified grounded 3-wire receptacle. Do not power the UPS using a surge suppressor or power strip. Switch the main supply SWITCH ON (Reference figure 3).

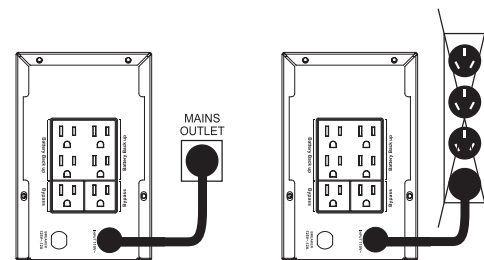


Figure 3

6 Connect Equipment to UPS

Now connect your load to be protected (computer, monitor etc.) to the AC Output receptacles at the rear of the UPS (Reference the figure 4).

Enable the UPS by turning on the Power ON/OFF switch, which is situated on the front panel. The UPS is now ready to use. Switch on your equipment.

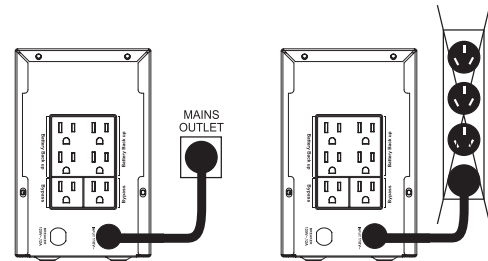


Figure 4

7 Battery Maintenance/Battery Charging

After shipment from the factory, the battery requires a full 12-hour recharge. If left unused for extended periods, the battery will begin to self-discharge, potentially shortening its service life or causing damage within the Warranty period. To prevent this, avoid exposing the UPS to excessive temperatures, as this can also reduce the battery's lifespan. Following these guidelines will help ensure maximum battery life.

The UPS battery charges whenever the UPS is connected to utility power and switched on. It typically takes twelve hours to fully charge. Until the battery is fully charged, the operating runtime will be reduced.

8 Testing the UPS

To test the UPS on battery backup, unplug the power cord and check the backup indicator lights. Your PC or other connected devices should continue to operate normally until the UPS battery is depleted. Refer to the UPS indicators and controls for more information.

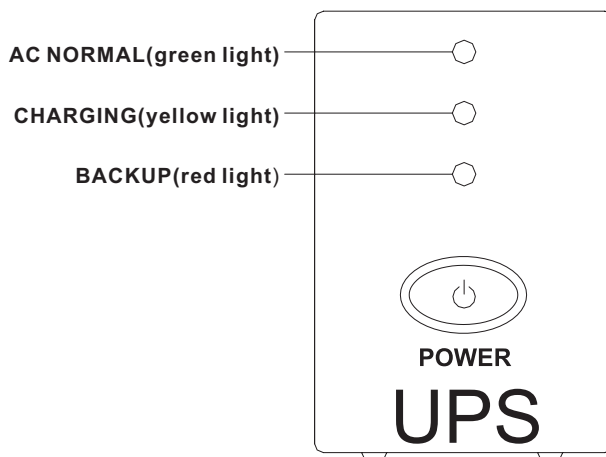


Figure 5: LED Display Mode 1

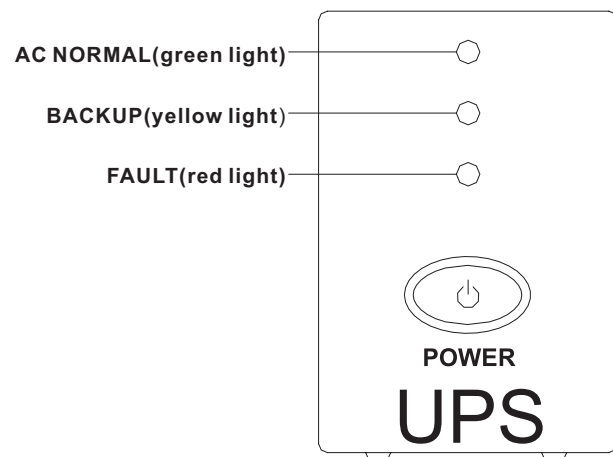


Figure 6: LED Display Mode 2



Operating by the LED display mode 1 (Reference the Figure 5):

1. **ON/OFF BUTTON:** Turn this button ON to supply power to the UPS outlets. To cut power to the UPS outlets, turn the switch OFF. This switch is located on the front panel of the UPS.
2. **AC NORMAL INDICATOR** (Green light continuous): The UPS is supplying conditioned utility power to its outlets.
3. **CHARGING INDICATOR** (Yellow light continuous): The UPS is supplying conditioned utility power to its outlets, and the battery is charging.
4. **BACKUP INDICATOR** (Red light slow blinking): This indicator starts slow blinking when utility power is outside acceptable limits. The battery is powering the UPS outlets.
5. **SLOW BEEPING:** A one-second tone sounds two seconds after a utility power loss. The UPS will continue to run with an audible alarm until the battery is low.
6. **LOW BATTERY INDICATOR** (Red light fast blinking): This indicator starts fast blinking when the battery is near the end of its runtime.
7. **FAST BEEPING:** The UPS is nearing the end of its battery runtime. Save your data, exit all applications, and shut down the operating system promptly.

Operating by the LED display mode 2 (Reference the Figure 6):

1. **ON/OFF BUTTON:** To supply power to the UPS outlets, turn this button ON. To cut power to the UPS outlets, turn the switch OFF. This switch is located on the front panel of the UPS.
2. **AC NORMAL INDICATOR** (Green light continuous): The UPS is supplying conditioned utility power to its outlets.
3. **BACKUP INDICATOR** (Yellow light slow blinking): This indicator starts slow blinking when utility power is outside acceptable limits, indicating that the battery is powering the UPS outlets. The expected runtime for a typical personal computer (PC) is about 10 to 20 minutes.
4. **SLOW BEEPING:** A one-second tone sounds two seconds after utility power is lost. The UPS will continue to run with an audible alarm until the battery is low.
5. **FAULT INDICATOR** (Red light fast blinking): This indicator starts fast blinking when the battery is near the end of its runtime.
6. **FAST BEEPING:** The UPS is nearing the end of its battery runtime. Promptly save your data, exit all applications, and shut down the operating system.

Manual Shutdown Procedure: When the UPS is operating on battery, follow these steps to conserve battery charge and ensure connected equipment is properly shut down:

1. Save important working files.
2. Exit all applications.
3. Exit the operating system.
4. Shut down the connected equipment.
5. Turn off the UPS ON/OFF switch located on the front panel of the UPS.

9 Cold Start

When the UPS is off and there is no utility power, you can power essential equipment connected to the UPS for a short period of time. Ensure only the most necessary equipment is connected to the UPS during this time.

1. Turn ON the UPS ON/OFF switch.
2. Complete your tasks with the powered equipment before the UPS battery is fully discharged.
3. Shut off the connected equipment.
4. Turn OFF the UPS ON/OFF switch.

10 Specifications

Specifications	
Power factor	0.6
Load type	Personal computers and other PC peripheral devices
Mains Voltage Range	80-150 \pm 5VAC
Mains Frequency Range	50 or 60Hz \pm 1Hz
Output Voltage Range (Line Mode)	102VAC/132VAC \pm 10% (Sine wave)
Output Frequency Range (Line Mode)	Syncs with mains input
Output Voltage Range (Battery Mode)	110/120/220/230VAC \pm 5% (Square wave)
Output Frequency Range (Battery Mode)	50/60 \pm 1Hz (frequency self-adapt system)
Battery No-load Protection	Auto protection. The UPS will automatically shut down after 2 minutes if there is no load detected
Transfer Time	\leq 10ms
Battery Backup Time*	3-20 minutes, depending on load
Battery Protection	Auto protection. The UPS will automatically shut down when battery voltage is low or high,
Battery Charging Time	8 hours to 90%
Short circuit protection	Auto protection. Output shuts off and the buzzer beeps continuously
Overload protection	110% < load percentage \leq 120%, buzzer beeps; load percentage >120%, output shuts off, buzzer beeps continuously.
Operating temperature	32 - 104° F (0 - 40° C)
Storage temperature	5 - 114° F (-15 - 45.5° C)
Relative humidity	10 - 90% (No condensation water)
Noise	\leq 45dB (1m from front panel)
Dimensions	13.78" x 4.72" x 7.40" (350 x 120 x 188 mm)
Weight	24.2 lbs (11 kg)
Warranty	1 Year Warranty

Note: The specification listed above is subject to change without notice.

11 Safety

The UPS contains potentially hazardous voltage. All repairs should be performed by qualified service personnel. The UPS has its own internal energy source (battery), so the output receptacles may remain live even when the UPS is not connected to an AC supply.

12 Troubleshooting

The troubleshooting chart addresses most issues you may encounter under normal operating conditions. If the UPS fails to function properly, please review the following steps before contacting the service center:

1. Is the UPS plugged into a functioning outlet?
2. Is the line voltage within the specified rating?
3. Is the fuse/circuit protector on the back panel intact?

When calling for service, please provide the following information:

1. Model number and serial number
2. Date the problem occurred
3. Full description of the problem

TROUBLE SHOOTING CHART		
SYMPTOMS	POSSIBLE CAUSE	ACTIONS TO TAKE
UPS cannot turn ON & no indications no alarms	UPS front panel switch not turned ON	Turn ON UPS front panel switch
	No incoming utility line	Check input power at end of power cord and wall socket. Otherwise, call for service.
UPS suddenly turns to battery mode in spite of utility line present	Rear panel input fuse open	Reduce the load and replace fuse with same rating
	Input utility line too high or too low	Check input line voltage
	Frequency out of range	Check input frequency
Single beep	Normal UPS operation	This is not a fault. The UPS is indicating that it is protecting the load during a momentary power loss.
Back-up time less than Specified	Battery is not fully charged	Recharge the battery for at-least 8 hours and re-lest the backup time if problem persists, call for service
UPS is normal but the computer won't turn-on	Computer input power cord is loose or not connected	Reconnect computer input power cord.

SERVICE

Do not attempt to service the system yourself. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel only.

Do Not Connect to Life Support Systems

We do not recommend using our UPS products for life support equipment or direct patient care where a UPS product failure could cause equipment failure or reduced effectiveness in patient care.



13 Warranty

DATATRONIX 1-Year Limited Warranty

DATATRONIX. (the “Company”) warrants to the Original Purchaser that the item purchased is free from defects in workmanship or material under normal use. This warranty starts on the date of shipment of the hardware to the Original Purchaser.

During the warranty period, the Company agrees to repair or replace, at its sole option, without charge to Original Purchaser, any defective component. To obtain service, the Original Purchaser must return the item to the Company properly packaged for shipping. All defective products must be returned to the Company within thirty (30) days of failure. Products must be returned with a description of the failure and Return Merchandise Authorization (RMA) number supplied by the Company. To receive a RMA number and a return shipping address on where to deliver the hardware, call 610-429-1821. The shipping, and insurance charges incurred in shipping to the Company will be paid by Original Purchaser, and all risk for the hardware shall remain with the Original Purchaser until such time as Company takes receipt of the hardware. Upon receipt, the Company will promptly repair or replace the defective unit, and then return said unit to Original Purchaser, shipping prepaid. The Company may use reconditioned or like-new parts or units, at its sole option, when repairing any hardware. Repaired products shall carry the same amount of outstanding warranty as from original purchase. Any claim under the warranty must include dated proof of purchase or invoice. In any event, the Company’s liability for defective hardware is limited to repairing or replacing the hardware.

This warranty is contingent upon proper use of the hardware by Original Purchaser and does not cover: if damage is due to Acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), accident, unusual physical, electrical, or electromechanical stress, modifications, neglect, misuse, operation with media not approved by the Company, tampering with or altering of the hardware, riot, war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or interruption or failure of electricity, air conditioning, or humidity control, Internet, network, or telephone service.

The warranties given herein, together with any implied warranties covering the hardware, including any warranties of merchantability or fitness for a particular purpose, are limited in duration to one year from the date of shipment to the Original Purchaser. Jurisdictions vary with regard to the enforceability of warranty limitations, and you should check the laws of your local jurisdiction to find out whether the above limitation applies to you.

The Company shall not be liable to your for loss of data, loss of profits, lost savings, special, incidental, consequential, indirect, or other similar damages arising from breach of warranty, breach of contract, negligence, or other legal action even if the Company or its agent has been advised of the possibility of such damages, or for any claim brought against your by another party. Jurisdictions vary with regard to the enforceability of provisions excluding or limiting liability for incidental or consequential damages. You should check the laws of your local jurisdiction to find out whether the above exclusion applies to you.



This warranty allocates risks of product failure between Original Purchaser and the Company. The Company's hardware pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors, and dealers of the Company are not authorized to make modification to this warranty, or additional warranties binding on the Company. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by the Company and should not be relied upon. This warranty gives you specific legal rights. You may also have other rights which vary from one jurisdiction to another.