

INSTALLATION & OPERATIONS

1 Inspection

The following items are inside the box:

- UPS UNIT
- USER'S MANUAL

Remove the UPS from its package and inspect it for damage that may have occurred during shipping. If any damage is discovered, re-pack the unit and return it to the place of purchase.

2 Connect to Utility Power

Connect AC power cord to utility power. Then, the UPS will start to charge inside battery. For best result, charge the battery for 6 hours prior to initial use.

3 Plug in Equipment

Plug your equipment to Battery Backup Outlets on the rear panel of the UPS.

NOTE: Make sure that the UPS is powered on to protect all important devices from data loss during power failure.

CAUTION: NEVER connect a laser printer or scanner to the battery backup outlets of UPS. The equipment may draw significantly power to overload the UPS.



PLACEMENT & STORAGE

Placement: Install the UPS in a protected area that is free of excessive dust and has adequate air flow. Place the UPS away from other units at least 20 cm to avoid interference. For best performance, keep the indoor temperature between 0° C and 40° C.

Storage: All connected equipment should be turned off, then disconnect from the UPS to avoid battery drain. Unplug the UPS from the wall outlet. Then turn off the UPS for storage. Store the UPS unit covered and upright in environments where the ambient temperature is -20° C to 50° C with its battery fully charged.

REAR PANEL

- A AC Input
- B Battery Backup Outlets

OPERATIONS

1 Turn On the UPS

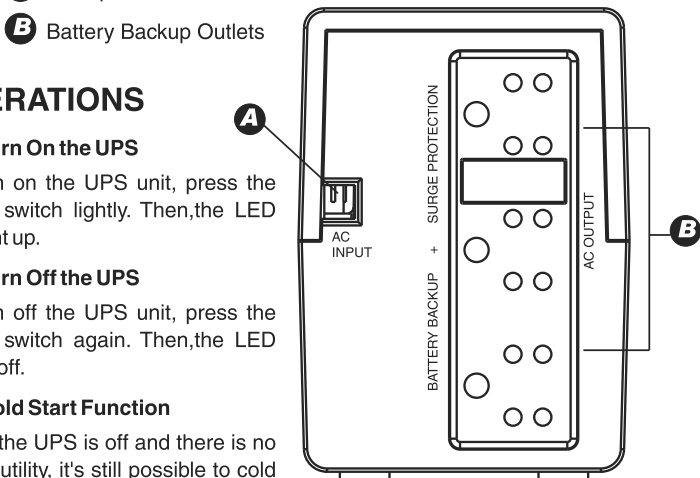
To turn on the UPS unit, press the power switch lightly. Then, the LED will light up.

2 Turn Off the UPS

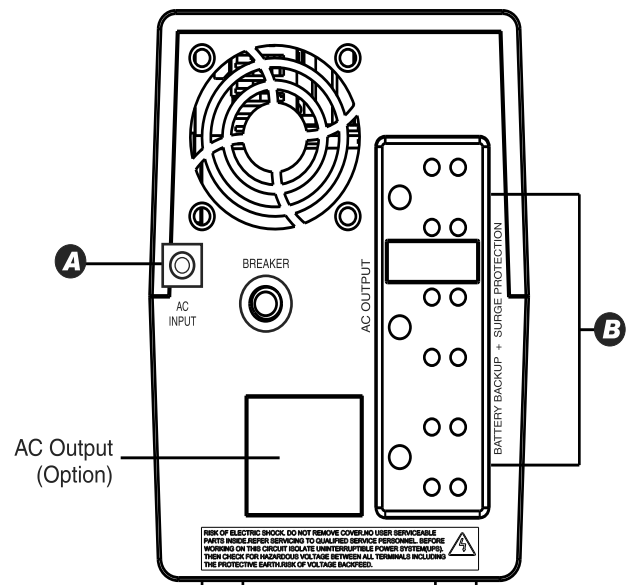
To turn off the UPS unit, press the power switch again. Then, the LED will go off.

3 Cold Start Function

When the UPS is off and there is no power utility, it's still possible to cold start the UPS unit to power the loads.



Legend 650 / 650S / 750M



Legend 1000 / 1000S / 1000U / 1600 / 1600U

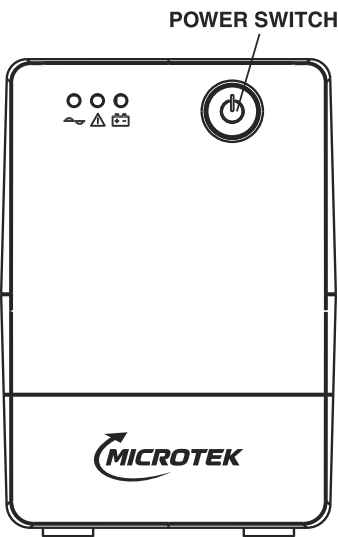
FRONT PANEL

LED INDICATIONS

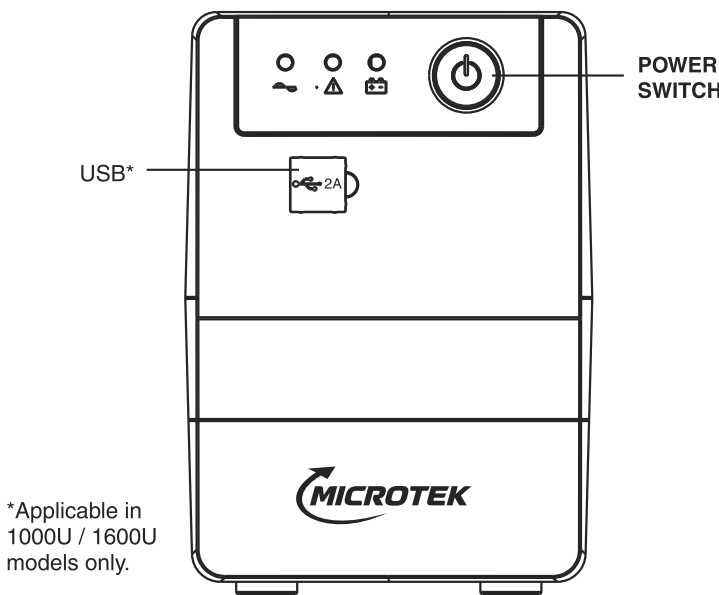
LED	STATUS	UPS STATUS
GREEN	LED ON	LINE MODE
YELLOW	LED BLINKING	BATTERY MODE
RED	LED ON	FAULT MODE

ALARMS

ALARM SOUNDING	UPS STATUS
EVERY 10 SECONDS	BATTERY MODE
EVERY SECOND	LOW BATTERY
EVERY 0.5 SECONDS	OVER LOAD
CONTINUOUSLY	FAULT



Legend 650 / 650S / 750M



*Applicable in 1000U / 1600U models only.

Legend 1000 / 1000S / 1000U / 1600 / 1600U

SAFETY CAUTIONS

SAVE THESE INSTRUCTION-This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

- This UPS utilizes voltage that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.
- 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.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate 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 any liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running 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 attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- Do not dispose off batteries in a fire as they may explode.
- A battery can present 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 terminal.
- Internal battery voltage is 12VDC, Sealed, lead-acid, 6-cell battery.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.

- When replacing batteries, replace with the same number and type of sealed lead-acid battery.
- Do not open or mutilate the battery or batteries. Release of electrolyte is harmful to the skin and eyes. It may be toxic.
- Attention, hazardous through electric shock. Also with dis-connection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole at the connectors of the battery when maintenance or service work inside the UPS is necessary.
- 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 space heater or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

* Company will not be liable for consequential damages if any due to not following safety cautions as mentioned above.

SPECIFICATIONS

MODEL UPS LEGEND	650/650S/750M	1000/1000S/1000U	1600/1600U
CAPACITY	650VA/360W	1000VA/600W	1600VA/960W
Input Voltage	220V AC / 230V AC		
Input Voltage Range	140~300V AC (Only in 750M: 142~282V AC)		
Output Voltage Regulation	±10%(Battery Mode)		
Transfer Time	Typical 4~8ms		
Waveform (Battery Mode)	Modified Sine Wave		
Battery Type	SMF		
Battery Number	12V / 7AHx1	12V / 7AHx2	12V / 9AHx2
Charging Time	6 Hours recover to 90% capacity		
USB Function	-	with 1000U	with 1600U
Dimensions (DxWxH) mm	281x100x143	315x130x183	315x130x183
Net Weight (Kgs.) Approx.	4.16Kgs.	8.02Kgs.	10.25Kgs.
Humidity	0~90% RH @ 0-40 C non-condensing		
Noise Level	Less than 40dB	Less than 40dB	Less than 45dB

* Specifications are subject to change.

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Nothing is displayed on LED panel.	The UPS in not ON.	Press the Power Switch again to Turn ON the UPS.
	Battery Voltage is too Low.	Charge the Battery for at least 6 Hours.
	Battery Fault.	Replace the Batteries.
The UPS always on Battery mode.	Power Cord Loose.	Re-Plug the Power Cord.
The UPS Continuously Beeps.	Overload.	Remove some unnecessary loads. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specifications.
	Battery Voltage is too Low.	Charge the Battery for at least 6 Hours.
Backup Time is too Short.	Overload.	Remove some unnecessary loads. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specifications.
	Battery Defect.	Replace the Batteries.

If any abnormal situations occur that are not listed above, please call for service immediately

WARRANTY / SERVICING

Microtek International P. Ltd., warrants each instrument to be free from defects in materials and workmanship for a period of Two years after initial delivery. This obligation is limited to servicing any instrument or part returned to the authorised service center for that purpose and to making good any parts thereof which shall, within the warranty period, be returned to the company or authorised Service center under a written intimation and which to the company's satisfaction be found defective. The company reserves the right to decide as to whether the repair work should be carried out in the company's service center or at site or at any other place.

The freight incurred for to and fro dispatch will have to be borne by the customer and the transit risk for the material will rest with the customer.

The warranty will be invalidated if defects arising in company's opinion are by reasons of accident, abuse, misuse, neglect, Improper Installation (If not undertaken by the company or its representative), fire, flood, any other act of God and any other natural calamities. Further, this warranty does not extend to any instrument which has been repaired / tampered with by any agency/person not authorized by the company. The services given for the same will be paid service.

The warranty will last for a period of 24 months on UPS Electronics and 12 months on Batteries (Only UPS 650S, UPS 750M and UPS 1000S are with 24months warranty on Battery), from the date of initial delivery/dispatch of the instrument if used within its specifications. The warranty for the replaced components will lapse along with that of the main instrument.

MICROTEK International P. Ltd., reserves the right to make changes in design and specifications without notice and without any obligation to install such changes on units previously supplied.

In no event will MICROTEK International P. Ltd., its distributors/ dealers be liable for any loss or injury or damage caused to life or property or death & disability caused to any form of life for any reasons whatsoever. The company, its distributors/ dealers will also not be liable for consequential damages or for any expenses incurred by the buyer or user, due to use or sale of products sold by MICROTEK International P. Ltd., directly or through its authorised Distributors/dealers or any third party.

In case of any "Customer Support" requirement kindly ring up or write to Microtek Branch/Service Centre, indicating following details:

- Model Number & Serial Number.
- Name & phone no. of the contact person with Location/full Address where the product is available & e-mail ID if any.
- Reported problem/description of complaint.

NOTE:

- Refer all servicing queries to Microtek Service Centres only.
- Please take care that Serial Number is kept intact and that the product is not allowed to be fiddled (opened) by any unauthorised person; otherwise the warranty will be void.

Service: Tel: 7283838383 E-mail: ups@microtek.in

*All disputes subject to Delhi jurisdiction only.

MODEL:

UPS LEGEND 650 ☐ UPS LEGEND 650S ☐ UPS LEGEND 750M ☐

UPS LEGEND 1000 ☐ UPS LEGEND 1000S ☐ UPS LEGEND 1000U ☐

UPS LEGEND 1600 ☐ UPS LEGEND 1600U ☐



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Vend C:

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002-262-UPS LEGEND ALL V.8

**TOTAL PROTECTION
OF YOUR COMPUTERS...**



Legend
UNINTERRUPTIBLE POWER SYSTEM

USER MANUAL



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