ABLEREX Line Interactive UPS

Quick Guide V.1

1 Product Introduction

Ablerex ES UPS Series provides comprehensive protection against surges and spikes and high-power density in a small and economic package. The UPS will continue providing power to connected devices during power outages. With built-in voltage stabilizer, it can still remain online operation and provide stable power under fluctuated voltage. Its embedded microprocessor controller guarantees high reliability. It is a perfect choice for any home or small office application.

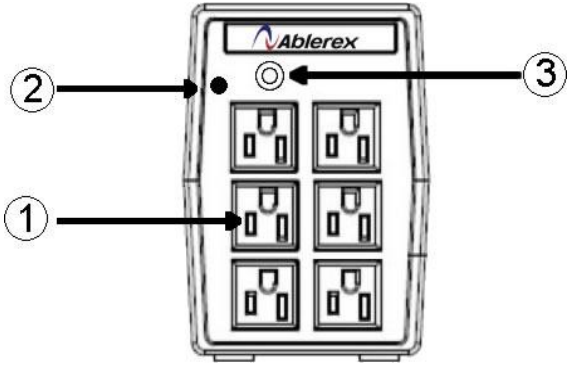
2 Product Overview

Front View:

Switch

UPS status LED
AC mode: green lighting
Battery mode: yellow flashing
Alarm mode: red lighting

Back View:



① Output receptacles 3 Backup /3 Surge ② Power Cord 5-15P ③ AC input fuse

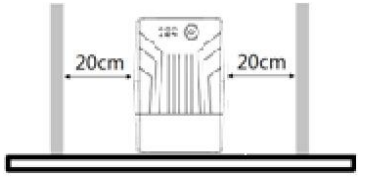
Note: The back view receptacles type may differ for different country models

3 Installation & Initial Startup

NOTE: Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

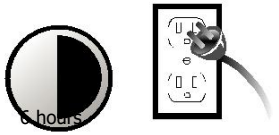
Placement & Storage Conditions

Install the UPS in a protected area that is free of excessive dust and has adequate air flow. Please place the UPS away from other units at least 20 cm to avoid interference. Do NOT operate the UPS where the temperature and humidity is outside the specific limits. (Please check the specs for the limitations.)



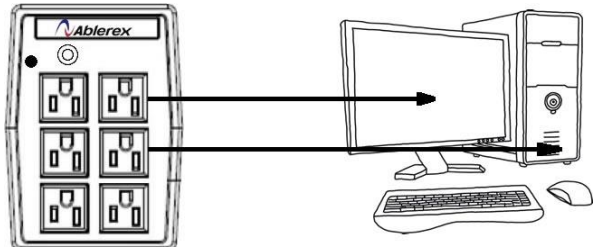
Connect to Utility and Charging

Plug in the AC input cord to the wall outlet. For the best results, suggest to charge the battery at least 6 hours before initial use. The unit charges its battery while connecting to the utility.



Connect the Loads

Plug in the loads to output receptacles on the rear panel of the UPS. Simply turn on the switch of UPS unit, then devices connected to the UPS will be protected by UPS unit.



CAUTION: NEVER connect a laser printer or scanner to the UPS unit if you don't know the power consunption. This may cause the damage of the unit.

Turn On/Off the Unit

Turn on the UPS unit by pressing the switch. Turn off the UPS unit by pressing again the switch.

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.

Important Safety Warning

4 (SAVE THESE INSTRUCTIONS)

CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area free of conductive contaminants. (See the specifications for the acceptable temperature and humidity range.)
CAUTION! 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 heaters or furnaces.
CAUTION! Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
CAUTION! Do not plug the UPS input into its own output.
CAUTION! Do not allow liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
CAUTION! 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.
CAUTION! Do not attach a power strip or surge suppressor to the UPS.
CAUTION! If the UPS is with metal chassis, for safety purpose, grounding is a must during UPS installation in order to reduce leakage current below 3.5mA.
Attention! Hazardous through electric shock. Also with disconnection 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 quick connectors of the battery when maintenance or service work inside the UPS is necessary.

CAUTION! Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
CAUTION! When replacing the batteries, use the same number and type of batteries.
CAUTION! Internal battery voltage is 12VDC. Sealed, lead-acid, 6-cell battery.
CAUTION! Do not dispose of batteries in a fire. The battery may explode. Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes.

CAUTION! Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
CAUTION! A battery can present a risk of electric shock and high short circuit current. The following precaution should be observed before replacing batteries:

1) Remove watches, rings, or other metal objects.
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.

5 Trouble Shooting

Use the table below to solve minor problems.

Problem	Probable Cause	Solution
No LED display on the front panel.	Low battery.	Charge the UPS at least 6 hours.
	Battery fault.	Replace the battery with the same type of battery.
	The UPS is not turned on.	Press the switch again to turn on the UPS.
Alarm continuously sounds when the mains is normal.	The UPS is overload.	Remove some loads first. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
When power fails, backup time is shorten.	The UPS is overload.	Remove some critical load.
	Battery voltage is too low.	Charge the UPS at least 6 hours.
	Battery defect. It might be due to high temperature operation environment, or improper operation to battery.	Replace the battery with the same type of battery.
The mains is normal but LED is flashing.	Power cord is loose.	Reconnect the power cord properly.

6 Specifications

Model	AB-ES500C	AB-ES750C	AB-ES1000	AB-ES1200
CAPACITY	500VA/250W	750VA/375W	1000VA/500W	1200VA/600W
	INPUT			
Voltage	110VAC / 120 VAC			
Voltage Range	81-134 VAC / 89-145 VAC			
Frequency	50Hz - 60Hz Input			
	OUTPUT			
Voltage Regulation	±10%			
Transfer Time	Typical 2-6 ms			
Waveform	Simulated Sine Wave			
	BATTERY			
Charging Time	6 hours recover to 90% capacity			
	PHYSICAL			
Dimension (DxWxH mm)	297 x 101 x 142			
Net Weight (kgs)	3.7	3.9	4.2	4.6
	ENVIRONMENT			
Humidity	0-90 % RH @ 0-40℃ (non-condensing)			
Noise Level	Less than 40 dB			