

Smartpower
User's Manual



Line Interactive UPS

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Thank you for purchasing this UPS system product. For utilizing its features and benefits, please read the following instructions on its installation, usage and safety cautions thoroughly.

Safety Instructions (Keep this Manual Handy)

This manual contains important information, including safety issues, about this UPS and its battery, and instructs you how to install and maintain this UPS and the battery. Keep this manual handy, and read this manual before unpacking, installing or using this UPS.

CAUTION!

CAUTIONS ON HANDLING THE UPS

- The UPS contains no user serviceable parts but hazardous voltage, and such service shall be performed by an equipped factory service technician. Do not disassemble and apply any service by yourself.
- Connection of the UPS to an outlet that is not designed for a two-pole, three-wire grounding plug may expose you to an electric leakage.
- If any emergencies arise, turn the power switch to the “off” and unplug it.
- Do not plug the UPS AC input power cord into its own output.
- Do not connect any power strip or surge suppressor to the UPS.
- Do not connect appliances that are not computer peripherals, such as medical equipments, life-support equipments, microwave ovens, or vacuum cleaners.
- Unplug the UPS before cleaning it, and do not spray or apply any liquids on it.



CAUTIONS ON HANDLING BATTERIES

- The UPS contains an internal battery that is 12Vdc, sealed, lead-acid, 6 cells one.
- Do not throw or expose the batteries in fire or heat sources. The batteries are explosive under high temperature.
- Do not try to dismantle the battery. The battery contains toxic electrolyte harmful to your skin and eyes.
- A battery presents electrical shock hazard from high short-circuit current. The following precautions should be taken before and during handling the UPS:
 - 1) Remove all worn watches, rings, or other metal objects.
 - 2) Use tools with insulated handles.
 - 3) Wear rubber gloves and boots.
 - 4) Do not put tools or metal objects on the battery.
- Unplug the UPS from its power source before connecting or disconnecting its battery terminal. Service of the battery should be performed or supervised by a qualified technician.
- When the replacement of the battery is required, replace it with one same-type sealed-lead-acid battery.

CAUTIONS ABOUT ENVIRONMENT

- Prevent any kind of liquid or any other objects getting into the UPS. Do not put drinks or any container that contains liquids on or even near the UPS.
- This UPS has been intended for indoor use, and shall be installed and operated in the environment required and stated in this manual, for example, where the temperature shall not exceed 40 °C and the air shall be free of conductive contaminants. Do not install the UPS where is nearby running water or excessively humid.
- Do not cover or block the cooling vents. Fail to do so will present the UPS a danger of overheating. Do not expose the UPS to direct sunlight or heat emitting appliances such as electrical heaters or furnaces.
- The UPS shall be placed where an available wall socket can be easily accessed.

Smartpower Service Centre

40 Weston Street, 1st Floor, Kolkata-700013 (Near Hare St. P.S.)

Tel- 22537451/9831155801/25779617/25776980

Monday to Friday. Working Hrs – 11AM to 4 PM

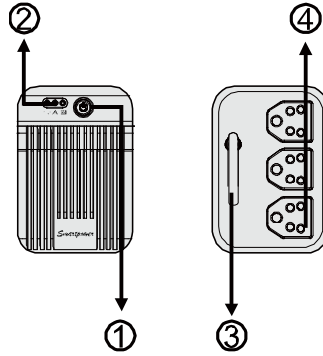


SYSTEM INTRODUCTION

This UPS has been designed to protect your personal computer and peripherals from possible power hazards. Its compact size makes itself very suitable for offices and home studios with limited space. It may be small, but can provide you the maximized power protection while a power failure arises.

Features

- Built-in DC start function to start up the UPS when its AC input power is down
- Green Power Function providing energy saving capability.
- Microprocessor Control Design to guarantee the high reliability
- Self-Restartable on AC input power recovery
- The highest standard of power protection on discharge, overcharge, and Overload



Front panel

1. Power Switch
2. LED Indicator –
AC Mode: Green lighting Battery

Mode: Green flashing

Back Panel

3. AC input
4. Output outlets

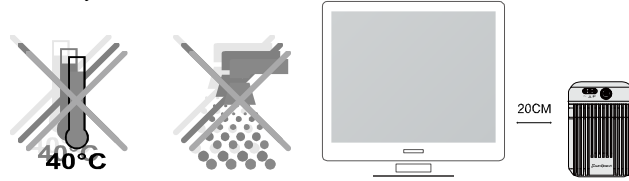
Installation and Operation

► Inspect the UPS

Take out the UPS from its packaging and check for any damage that might have occurred during shipping. If any damage is found, repack and return the UPS to your dealer.

► Choose where to place it

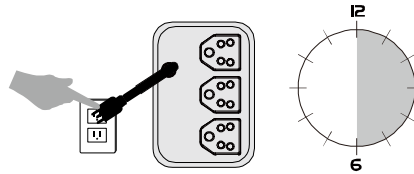
The place for installation of the UPS shall provide adequate vitalization or airflow, and shall have no excessive dust, corrosive fumes nor conductive contaminants. Do not operate your UPS in an environment with high ambient temperature or humidity.



Furthermore, keep the UPS away from monitors at least 20cm to avoid interference.

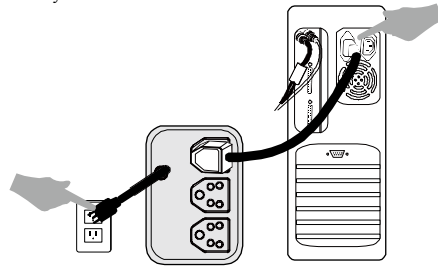
► Recharge the UPS

This UPS has been shipped from the factory with its internal battery fully charged. However, the charged level inevitably will be lost to certain degree during shipping, and the battery should be recharged before plugging anything to it. Just plug the UPS into a wall outlet for 6 hours to recharge it in full.



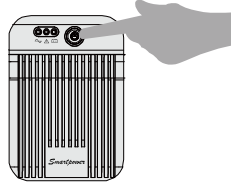
► **Plug your Computer and its Peripherals to the UPS**

Plug your computer and its peripherals to the available output sockets on the back of the UPS respectively.



► **Turn On/Off UPS**

To start up the UPS, press the power switch button. (When switching on, the LED will light up). To turn off, press the button again.



► **DC Start**

This UPS comes with a function “DC Start”. This function enables you simply press the power button to start using the UPS even when an AC power is not available.

► **Green Power Function**

This UPS is equipped with a function “Green Power Function”. This function can save power and protect battery by applying deep discharging protection when the UPS is in inverter mode.



Trouble Shooting Guide

When your UPS is found not working normally, please refer to the following trouble shooting table to try to solve the problems. If any problem still persist or are not mentioned here, please call our service center for assistance.

The UPS Fails to turn on and no LED lights

Possible Cause	Solution
Low battery voltage	Charge battery up to 8 hours
The battery is defective	Replace it with a same-type battery
The power switch is not pressed	Press the power switch again

Audible alarm buzzer beeps continuously when AC power source is normal

Possible Cause	Solution
The UPS is overload	Verify if the total load exceeds the UPS capacity specified in the specs. If so, unplug a less critical load from the UPS.

When power fails, the backup time is shortened than the normal status

Possible Cause	Solution
The UPS is overload	Unplug less critical loads from the UPS.
Low battery voltage	Charge battery 6 hours or more
Battery defect due to high temperature operation environment, or improper battery operation	Replace the battery with a same type.

The AC power source is normal but the UPS is in the battery mode

Possible Cause	Solution
Power cord is loose.	Reconnect the power cord properly.



Specifications

MODEL		SPU 700 DLx
CAPACITY	VA/W	700VA
INPUT	Voltage	230VAC
	Voltage Range	140-300VAC
OUTPUT	Voltage	230VAC
	Voltage Regulation (Batt. Mode)	+/-10%
	Frequency	50Hz or 60Hz
	Frequency Regulation (Batt. Mode)	+/-1 Hz
	Output Waveform	Modified Sine Wave
BATTERY	Battery Type	12V/7AH
	Recharge Time	6 hours to 90% after complete discharge
TRANSFER TIME	Typical	4-8 ms
INDICATOR	AC Mode	Green LED lighting
	Battery Mode	Green LED flashing
AUDIBLE ALARM	Backup Mode	Sounding every 10 seconds
	Low Battery	Sounding every 1second
	Overload	Sounding every 0.5 second
	Fault	Continuously sounding
PROTECTION	Full Protection	Discharge, overcharge, and overload protection
PHYSICAL	Dimension (mm), DXWXH	278X100X143
WEIGHT	Net Weight	4.4kgs
ENVIRONMENT	Operating Environment	0°C - 40°C
	Noise Level	Less than 40dB

