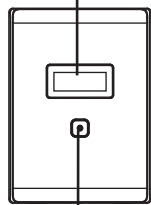


1 Product Overview

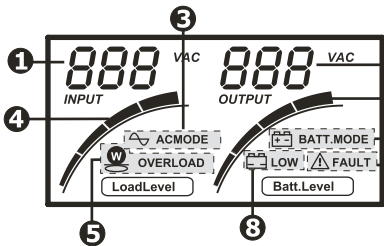
Front View:

LCD panel



Power switch

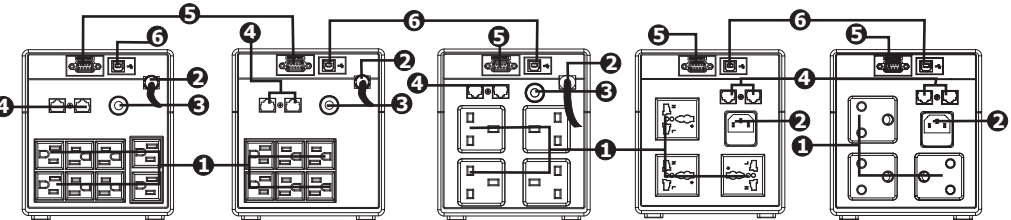
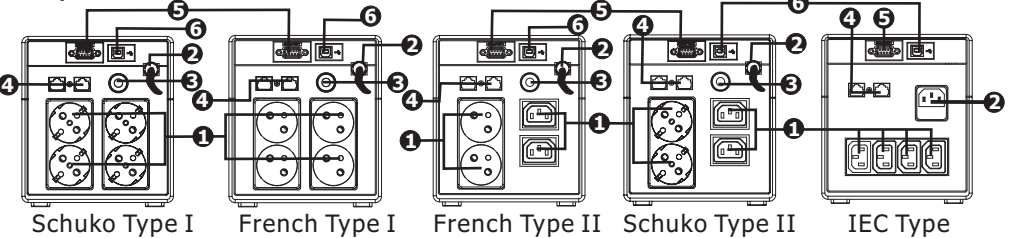
LCD Panel:



- ① Input voltage/frequency
- ② Output voltage/frequency
- ③ AC mode indicator
- ④ Load level
- ⑤ Overload indicator
- ⑥ Battery mode indicator
- ⑦ Battery level
- ⑧ Low battery indicator
- ⑨ Fault indicator

Back View:

750/1KVA-



NEMA Type I

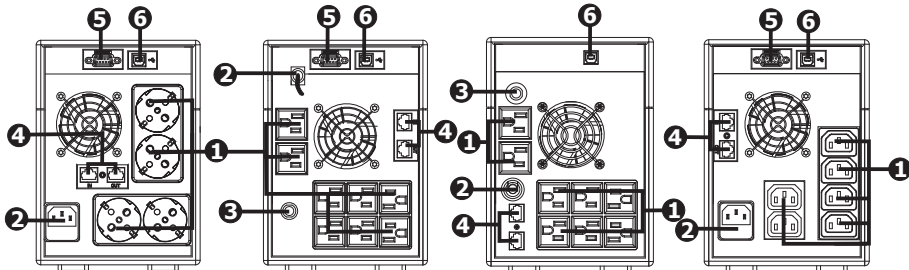
NEMA Type II

UK Type

Universal Type

South Africa Type

1.5K/2KVA-



Schuko Type

NEMA Type I

NEMA Type II

IEC Type

① Output receptacles

② AC input

③ Circuit breaker

④ Modem/Phone/Network surge protection

⑤ RS-232 com. port

⑥ USB com. port

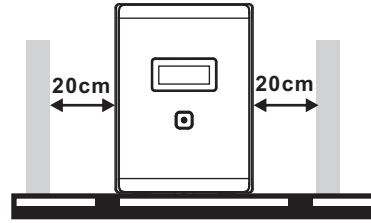
2 Installation & Initial Startup

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 power switch of UPS unit, then devices connected to the UPS will be protected by UPS unit.

Connect Modem/Phone/Network for Surge Protection

Connect a single modem/phone line into surge-protected "IN" outlet on the back panel of the UPS unit. Connect from "OUT" outlet to the computer with another phone line cable.

Connect Communication Cable (Only for the model with USB/RS-232 port)

To allow for unattended UPS shutdown/start-up and status monitoring, connect the communication cable one end to the USB/RS-232 port and the other to the communication port of your PC. With the monitoring software installed, you can schedule UPS shutdown/start-up and monitor UPS status through PC.

Turn On/Off the Unit

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

3 Important Safety Warning (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.

4 Software Download & Installation (Only for the model with communication port)

Please follow steps below to download and install monitoring software:

1. Go to the website <http://www.power-software-download.com>
2. Click ViewPower software icon and then choose your required OS to download the software.
3. Follow the on-screen instructions to install the software.
4. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.

5 Trouble Shooting

Use the table below to solve minor problems.

Problem	Probable Cause	Solution
No words display on the front panel even though the mains is normal.	The AC input is not connected well.	Check if the input power cord is firmly connected to the mains.
	The AC input is connected to the UPS output.	Plug AC input power cord to AC input correctly.
Battery backup time is shorter than nominal value.	Batteries are not fully charged.	Charge the batteries at least 6 hours and then check the capacity again. If the problem still persists, please consult your dealer.
	Batteries defect.	Contact your dealer to replace the batteries.
Warning or fault icon is shown and alarm is continuously sounding.	Fan is locked or not working.	Check fans and notify your dealer.
	The UPS is overload.	Remove some loads first. Before reconnecting devices, please verify the total loads match the UPS capability specified in the spec.
Low battery icon is shown on the LCD screen.	Battery is in low battery status.	Charge the UPS at least 6 hours.

6 Specifications

Model	750	1K	1.5K	2K
CAPACITY	750 VA / 480 W	1000 VA / 700 W	1500 VA / 1050 W	2000 VA / 1400 W
INPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145 VAC / 162-290 VAC			
OUTPUT				
Voltage Regulation	+/-10%			
Transfer Time	Typical 2-6 ms, 10 ms max.			
Waveform	Pure Sine Wave			
BATTERY				
Type & Number	12 V/9 Ah x 1	12 V / 7 Ah x 2	12 V / 9 Ah x 2	12 V / 10 Ah x 2
Charging Time	6 hours recover to 90% capacity			
PHYSICAL				
Dimension (DxWxH mm)	350 x 146 x 160		397 x 146 x 205	
Net Weight (kgs)	8.3	9.0	11.6	12.25
ENVIRONMENT				
Humidity	0-90 % RH @ 0-40°C (non-condensing)			
Nosie Level	Less than 45 dB			
MANAGEMENT				
USB/RS-232 (Option)	Supports Windows® 98/2000/2003/XP/Vista/2008, Linux, and MAC			