Qoltec®

# USER MANUAL

## UPS Line Interactive

MODEL: 53973, 53974, 53975, 53976

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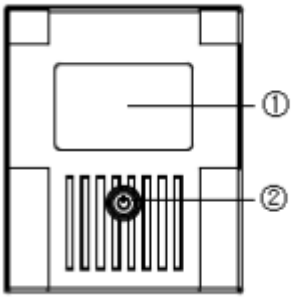
## 1. Package contents

You should receive the following items inside of a package:

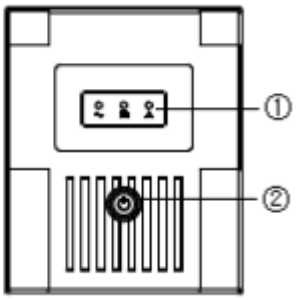
- UPS
- User manual

## 2. Product

Front view:



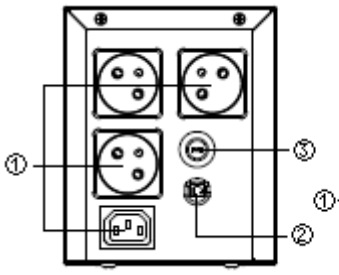

① LCD display
② On/off switch



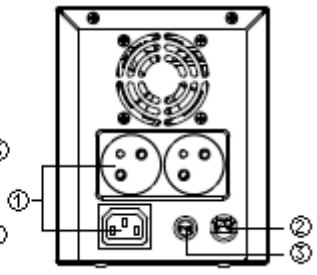

① UPS status LED
AC mode: green lighting
Battery mode: yellow flashing
Alarm mode: red flashing
② On/off switch

Back view:

1K -1.2K




1.5K-2K




① Output sockets
② AC input
③ AC input fuse

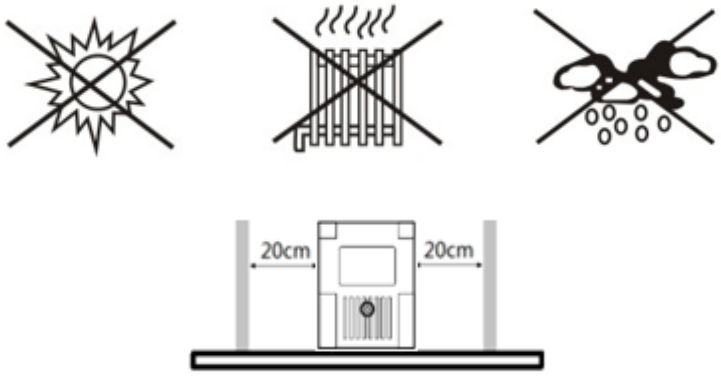
*Note: The output receptacles type may differ for different country models.*

## 3. Installation and initial startup

*Note: Before installation, please check if nothing inside the package is damaged.*

### Placement & storage conditions

Install the UPS in protected area without excessive dust and where is adequate air flow. Please place the UPS away from other devices at least 20 cm to avoid interference. Do NOT operate the UPS where the temperature and humidity it out of the specific limits.

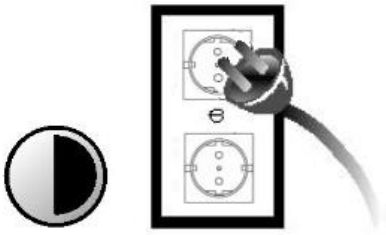



### Connect to utility power and charging

Plug in the AC input power cord to the wall outlet. For the best results, it is suggested to charge the battery for at least 6 hours before initial use. The UPS charges its batteries while connecting to the utility.

### Connect the loads

Plug in loads to output receptacles on the rear panel of the UPS, then connected devices are protected.



*Caution: NEVER connect a laser printer or scanner to the UPS. This may cause damage of the device.*



### Connection of USB cable (Optional)

Connect the USB cable to UPS and computer, insert CD to the computer and follow the wizard to install monitoring software properly.

### Connect modem/phone for surge protection (Optional)

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

### Turn on/off the UPS

Turn on the UPS by pressing the on/off switch.

Turn off the UPS by pressing the on/off switch.

## 4. Important safety warning

Caution! To prevent the risk of fire or electric shock, install UPS in the indoor area free of conductive contaminants .

Caution! To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the device to direct sunlight or installing the UPS near heat emitting appliances such as 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 UPS.

Caution! In the event of any emergency, press the off button and disconnect the power cord from the AC power supply to properly disable UPS.

Caution! Do not attach a power strip or surge suppressor to the UPS.

Caution! If the UPS is equipped with a metal housing, it is necessary to reduce the leakage current below 3.5mA for safety reasons during installation of the UPS.

Pay attention to the risk of electric shock. Disconnecting the device from the network can be just as dangerous as there may still be voltage available through battery power. The battery supply should be disconnected and isolated before maintenance or service work are made inside the UPS.

Caution! Servicing of batteries should be performed or supervised by personnel who have knowledge about batteries and required precautions.

Caution! When replacing the batteries, use the same number and same type of batteries,

Caution! Internal battery voltage is 12V DC. Sealed, lead-acid, 6-cell battery.

Caution! Do not dispose batteries in fire. The battery may explode. Do not open or mutilate the battery. Released electrolyte is harmful to the skin and eyes.

Caution! Do not use liquid or spray detergent to clean the UPS. Unplug the UPS before cleaning.

Caution! The battery may cause an electric shock and short circuit. Before replacing it, the following precautions must be observed:

- Take off your watch, jewelry and other metal items.
- Use tools with insulated handles.

- Put on rubber gloves and shoes.
- Do not place tools or metal parts on the battery.
- Disconnect the charging source before connecting or disconnecting the battery terminals.

## 5. Troubleshooting

| Problem | Probable cause | Solution |
|---|---|---|
| No LED/LCD 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 sounds continuously when the mains is normal | The UPS is overloaded | Remove some loads first. Before reconnecting equipment, please verify if the load matches the UPS capability specified in this user manual |
| When power fails backup time is shorten | The UPS is overloaded | 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/LCD is flashing | Power cord is loose | Reconnect the power cord properly |

## 6. Specifications

| Model | 1000 | 1200 | 1500 | 2000 |
|---|---|---|---|---|
| Capacity | 1000VA/600W | 1200VA/720W | 1500VA/900W | 2000VA/1200W |
| Input voltage | 230VAC | | | |
| Input voltage range | 140-300VAC | | 170-280VAC | |
| Output voltage regulation | +/- 10% | | | |
| Transfer time | Typical 2-6ms, 10 ms max. | | | |
| Waveform | Simulated Sine Wave | | | |

| | | | | |
|---|---|---|---|---|
| Type of battery | 12V/7Ah x 2 | 12V/7Ah x 2 | 12V/9Ah x 2 | 12V/9Ah x 2 |
| Mute | Auto | | | |
| Input voltage range | 140-290Vac | | | |
| Input frequency range | 50Hz ±10% | | | |
| AVR | Intelligent auto AVR function | | | |
| Output voltage (AC mode) | 220Vac ± 10% | | | |
| Output voltage (Battery mode) | 50Hz ±10% | | | |
| AC-DC switching time | 2-6 ms | | | |
| Output waveform | Modified sine wave (Battery mode) | | | |
| Battery type | Seald lead-acid maintenance free battery | | | |
| Battery voltage | 12V/9Ah x 2 | 12V/7Ah x 2 | 12V/9Ah x 2 | 12V/9Ah x 2 |
| Charging time | 6 hours to 90% | | | |
| Backup time (100W) | 25min | 40min | 50min | 55min |
| Size (W x H x D) (mm) | 370 x 135 x 165 | | | |
| Net weight | 9.0 kg | 9.5 kg | 10.5 kg | 11.3 kg |
| Humidity / temperature | 0-95% / 0-40°C (no condensation) | | | |
| Noise level | Less than 40dB | | | |

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