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## R-Smart 1210/1510/2010 User Manual



R-Series Advanced Power Protection

## SAFETY INSTRUCTION



**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's 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 the 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 has a metal chassis, for safety purpose, the UPS must be grounded during 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 the battery. The battery supply should be therefore disconnected from the plus and minus pole by removing the quick connectors of the battery cables 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:

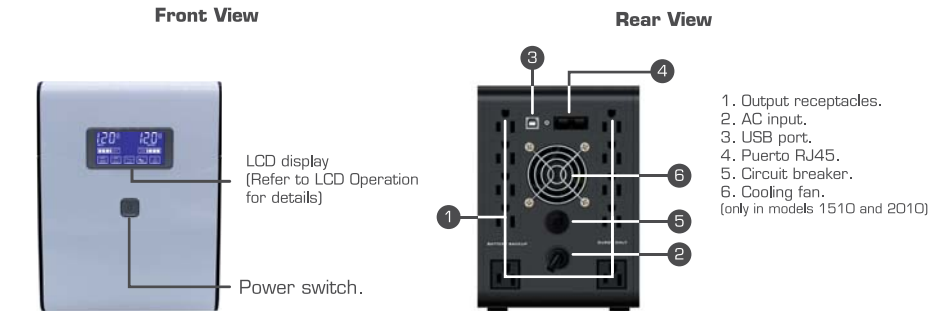
- 1) Remove watches, rings, or other metal objects.
- 2) Use tools with insulated handles.
- 3) Wear rubber gloves and boots.
- 4) Do not lay tools or metal parts on top of batteries.
- 5) Disconnect charging source prior to connecting or disconnecting battery terminals.

This product is an intelligent line interactive UPS (Uninterruptible Power Supply) which is designed to protect your personal computer or sensitive electronic equipment from all forms of power interference, including complete power failure. It is equipped with many features that allow any attached equipment to operate longer and more reliably.

You should have received the following items inside of package:

1. UPS unit.
2. User manual.
3. USB cable.
4. Software for Monitoring and Control of UPS.

## 1. Product Overview



## 2. Installation and Operation

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

### 1) 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 at least 20 cm away from other electronic equipment to avoid interference. Do NOT operate the UPS where the temperature exceeds 0-40° C and the humidity is over 0-90% RH.

### 2) Connect to Utility and Charge

Plug in the AC input cord to the wall outlet. For the best results, we suggest charging the battery for at least 6 hours before initial use. The unit charges its battery when connected to AC power supply.

### 3) Connect the Load.

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



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



NEVER connect a laser printer or scanner to the UPS unit, because in-rush current generated by motor's devices may cause damage to the unit.

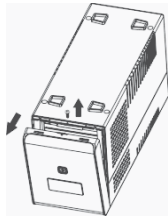


### 4) Turn On/Off the Unit.

To turn on the UPS unit, press the power switch at least 3 seconds until a sound is heard. For detailed LCD operation, please check next section. To turn off the UPS unit, press the power switch again for 3 seconds until a click is heard. At this time, LCD screen will remain on for 10 seconds and then shuts off. Then, UPS is complete off.

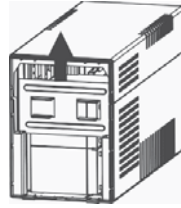
## 6. Battery Replacemnt

Please follow below steps to replace battery.



1

Remove the screw holding the front panel and then pull out the front panel gently.



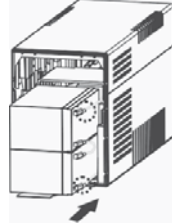
2

Slide up and remove the metal battery cover.



3

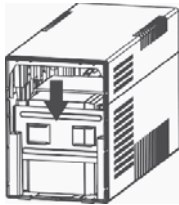
Gently pull out batteries by grasping the tape.



4

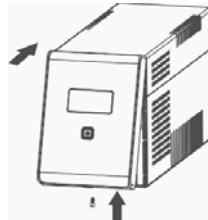
Disconnect battery wires and then replace the batteries.

Connect new batteries in place of the old.



5

Reinstall the metal battery cover.



6

Reinstall the front panel.

## Specifications

| Model    | R-Smart 1210 | R-Smart 1510 | R-Smart 2010 |
|----------|--------------|--------------|--------------|
| CAPACITY | 1200VA/720W  | 1500VA/900W  | 2000VA/1200W |

### Input

|                             |                  |                  |                  |
|-----------------------------|------------------|------------------|------------------|
| Voltage                     | 110/120Vac       |                  |                  |
| Frequency                   | 60 Hz            |                  |                  |
| Voltage Range               | 81~145Vac        |                  |                  |
| Max. Input current (Bypass) | 13 Amps / 1560 W | 15 Amps / 1800 W | 20 Amps / 2400 W |

### Output

|                       |  |  |  |
|-----------------------|--|--|--|
| Voltage               | 110/120Vac                             |  |  |
| AC Voltage Regulation | +/- 10%                                |  |  |
| Frequency Range       | 60HZ ± 1Hz                             |  |  |
| Waveform              | Simulated Sinewave                     |  |  |
| Transfer Time         | 2-6ms, 10 ms. Max.                     |  |  |
| Outlets Nema 5-15R    | 5 Batory backup and Avr / 5 Surge only |  |  |

## Battery

|                       |                                   |             |             |
|-----------------------|-----------------------------------|-------------|-------------|
| Battery Type & Number | 12V/7AH x 2                       | 12V/7AH x 2 | 12V/9AH x 2 |
| Typical Recharge Time | 4-6 hours recover to 90% capacity |             |             |

## Indicators

|               |   |
|---------------|---|
| LCD indicator | AC mode \ BAT mode \ overload \ AVR mode \ fault \ input voltage<br>output voltage \ output fre \ load percent \ battery capacity |
|---------------|---|

## Protection

|                 |  |
|-----------------|--|
| Full Protection | Overload, discharge, and overcharge protection |
|-----------------|--|

## Alarm

|                           |                           |
|---------------------------|---------------------------|
| Battery Mode              | Sounding every 10 seconds |
| Low Battery               | Sounding every second     |
| Overload                  | Sounding every 0.5 second |
| Battery Replacement Alarm | Sounding every 2 seconds  |
| Fault                     | Continuously sounding     |

## Physical

|                           |                    |    |    |
|---------------------------|--------------------|----|----|
| Dimension, D X W X H (mm) | 390 x 146 x 200 mm |    |    |
| Net Weight (kgs)          | 10.3               | 12 | 12 |

## Environment

|             |                                      |  |  |
|-------------|--------------------------------------|--|--|
| Humidity    | 0-90 % RH @ 0- 40°C (non-condensing) |  |  |
| Noise Level | Less than 45dB                       |  |  |

## Management

|                          |   |  |  |
|--------------------------|---|--|--|
| Optional USB/RS-232 Port | Supports Windows® 2000/2003/XP/Vista/2008/7, Linux, Unix, and MAC |  |  |
|--------------------------|---|--|--|

"Specifications subject to change without notice"

## Warranty

CHICAGO DIGITAL POWER INC. warrants this product against defective materials or workmanship for one year from the date of original purchase [With the possibility to be extended to 2 years]. Proof of purchase is required.  
I. To make this warranty valid proof of purchase is required. Bring the product to the original purchase place or to the nearest CDP service center. Make sure to bring also this warranty policy. For information about service center in your contry please call the following numbers. (if your country is no here please send a mail to [servicio@cdpups.com](mailto:servicio@cdpups.com))

Bolivia: 800-100156 Colombia: 01800-5181617 Costa Rica: 800-4357237  
El Salvador: 800-6773 Honduras: 800-25616099 México: 001800-5148611 Panamá: 011-00800-2268611  
Perú: 0800-54674 República Dominicana: 1888-7514876 Venezuela: 0800-1627485

II. Chicago Digital Power will repair or replace the product at its own criteria without a cost during the warranty period.  
III. Repair or replacement time should never exceed 30 days from the date that the unit is received at the CDP Service Center.  
IV. In case this warranty policy is a lost please a copy at the original purchase place.

### Warranty Limitations

- This warranty does not include damage which arise from negligence, misuse or use not in accordance with the product instruction.
- When the product has been opened or serviced by a non authorized service facility, has been altered or changed.
- Warranty is voided if utility wiring is reversed or lacks of ground.
- Warranty not valid for normal wear and tear.

(please complete and submit this information, otherwise you will not have access to the guarantee)  
(No guarantee will be offered if this format does not accompany the unit at the time of its return to the place of purchase)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone number: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Shop place: \_\_\_\_\_  
Purchase address: \_\_\_\_\_  
E-mail from the place of purchase: \_\_\_\_\_











Product AVR  UPS  No-Break  Inverter

Model: \_\_\_\_\_

STORE SEAL

DATE OF DELIVERY

### 3. LCD Operation

| UPS Mode                    | LCD   | Description  |
|-----------------------------|---|--|
| Ups Start up                |    | When ups start up ,all the LCD segments will on 3 second   |
| Battery mode                |     | Step 1: Battery voltage less than 21V<br>Step 2: Battery voltage less than 22V<br>Step 3: Battery voltage less than 23V<br>Step 4: Battery voltage less than 25V |
| Low battery                 |    | Flash every 1s<br>Sounding every 1s  |
| Over load<br>(Battery Mode) |    | Flash every 1s<br>Sounding every 0.5 seconds   |
| Line mode                   |     | Step 1: more 25% load level<br>Step 2: 25% - 50% load level<br>Step 3: 50% - 75% load level<br>Step4: 75% -100% load level                                       |
| Boost mode                  |    | Flash every 1s   |
| Buck mode                   |   | Flash every 1s   |
| Over load<br>(Line Mode)    |  | flash every 1s sounding every 0.5 seconds  |
| Standby mode                |  |  |
| Fault                       |  | Sounding all on  |

NOTE: If backlight shuts off, you may activate it by touching the screen.







### 4. Trouble Shooting

Use the table below to solve minor problems.

| Problem   | Possible Cause  | Solutions  |
|---|---|--|
| No words displayed on the front panel.                                | Low battery.  | Charge the UPS for at least 6 hours.               |
|   | Battery fault.  | Replace the battery with the same type of battery. |
|   | The UPS is not turned on.   | Press the power switch again to turn on the UPS.   |
| Alarm sounds continuously.  | Please check fault code table for the details.  | Please check fault code table for the details.     |
| When power fails, back-up time is reduced.                            | The UPS is overloaded.  | Remove some critical load.                         |
|   | Battery voltage is too low.   | Charge the UPS at least 6 hours.                   |
|   | Battery defect. May be due to high temperature operation environment, or improper operation of battery. | Replace the battery with the same type of battery. |
| The mains supply is normal, but the UPS is operating in battery mode. | Power cord is loose.  | Reconnect the power cord properly.                 |

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

### 5. Fault Code

| Fault condition.                    | LCD   | Solutions.   |
|-------------------------------------|---|--|
| Output short circuited.             |    | Disconnect short-circuited loads and restart the UPS again.                                      |
| Overload fault.                     |    | Disconnect all output loads and restart the UPS again.   |
| Overcharge.                         |   | Call for service immediately.  |
| Bad or severely discharged battery. |  | Please replace the battery.  |
| High output voltage fault.          |  | Call for service immediately.  |
| Over-temperature.                   |  | 1. Turn off the unit and wait for cooling.<br>2. Or remove excessive loads and wait for cooling. |

If fault alarm occurs, please call for service immediately.