

R-Smart 751/1010

User Manual



R-Series Advanced Power Protection

A Full line of products designed for the modern family with advanced features and characteristics needed for today's modern devices.



Bolivia: 800-100156
Colombia: 01800-5181617
Costa Rica: 800-4357237
El Salvador: 800-6773
Honduras: 800-25616099
México: 001800-5148611
Panamá: 01100800-2268611
Perú: 0800-54674
República Dominicana: 1888-7514876
Venezuela: 0800-1627485

Please read and understand this instructions manual!

This manual provides safety, installation and operation instructions which will guide you to the best performance of your equipment.

Please keep this manual!

It includes important instructions for the safe usage of the equipment and to obtain manufacturer's support in case of need.

Please keep or recycle the packaging materials!

Packaging materials used in our products are designed to provide protection from transportation. These materials are necessary in case that the equipment needs to be shipped back for service. Damage that may occur during the shipment is not covered by the product's warranty.

1. Introduction.

1.1 System Description.

The product is Line Interactive UPS with LCD display, newest technology and powerful function. The Line Interactive UPS is designed with 2-Steps Boost and 1-Step Buck AVR to stabilize input voltage. Input voltage range is -30% +25%, but output regulation is +/-10%. The Line Interactive UPS provides you with the ability of perfect protection for your critical devices.

1.2 Features:

- Line Interactive design.
- Microprocessor control guarantees high reliability.
- Frequency 50/60Hz auto-sensing.
- Equipped with 2-Steps Boost & 1-Step Buck AVR to stabilize utility voltage.
- Built-in DC start function enable UPS to be started up without AC power supplied.
- UPS Green Mode (Energy Saving Function).
- Off-mode Charging.
- Coax line surge protection
- Over/Low Voltage, Short-Circuit, and Lightning/Surge Protection.
- Built-in CCCV (Constant Current, Constant Voltage) battery Charger.

2. Caution.

- The UPS contains voltage that is potentially hazardous. Only a qualified or certified technician should perform all repairs and maintenance.
- The UPS has its own internal energy source (battery). The output receptacles maybe active even when the UPS is not connected to an AC supply.
- The UPS is suitable for computers and electronic, not suitable for electronic equipment with significant inductive loads, such as motors & fluorescents lamps or laser printers.
- Be sure to operate with loads within the power rating of the UPS. Using loads below 1/2 or 1/3 of the rated power is recommended for longer backup time & longer battery life.
- Do not place the UPS near excessive humidity, under sunshine, or close to heat-emitting sources.
- If the UPS is out of order, detach the power cord and consult your dealer right away. Do not remove cover; there is no serviceable part inside.
- The utility power supplied to the unit should have a grounded source. Do not operate the unit without a ground source. Usage in Not grounded source will void any warranty.
- The socket to which the UPS is connected should be installed near the equipment and be easily accessible.
- Do not plug the UPS's power cord into itself. That will result in a safety hazard.

3. Installation.

The UPS must be installed in a protected environment away from heat-emitting appliances such as a radiator or heater. Do not install this product where excessive moisture is present.



Caution: Never connect a laser printer or plotter to the UPS. A laser printer or plotter periodically draws significantly more power than its idle status, and may overload the UPS.

4. Overview.

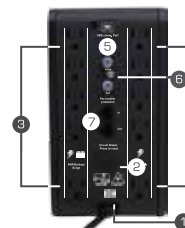
Front View



1 LCD Screen.

2 Control Button.

Rear View



- 1. AC Input: Connect to input power cord.
- 2. AC Fuse / Circuit Breaker.
- 3. 5pcs Backup / AVR Protection outlets.
- 4. 5pcs Surge Protection outlets.
- 5. Interface communication USB.
- 6. COAX Protector.
- 7. RJ-45 port

5. Operation.

5.1

When UPS is connected to city utility, but UPS is not powered on, UPS will charge battery automatically and LCD display will show "UPS off". Please press main switch on front panel for 1 second to turn on UPS.

5.2

To turn off UPS when UPS is under AC mode, please press main switch on front panel for 4 seconds. To turn off UPS when UPS is under battery mode, please press main switch and then UPS will shut down completely in 10 seconds. This UPS is designed with "Off-mode charging", so UPS will charge battery continuously when UPS is plugged in to AC. If users intend to power off UPS completely, users have to unplug power cord from city utility.

5.3 DC Start:

Press on main switch for 1 second when city utility is not present, UPS will be turned on and then go to back up mode. To turn off UPS, please press main switch for 4 seconds again. If users want to turn on UPS again, please wait for 10 seconds to press main switch for 1 second again.

5.4

When UPS is under battery mode and battery voltage is too high or low, buzzer will beep.

5.5

Buzzer will beep twice every 8 seconds when there is a black out. To silence alarm, please simply press main switch. To re-start alarm, please press main switch again.

6. Storage.

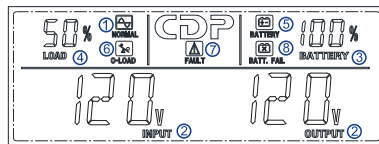
To ensure battery lifetime, please kindly read and also follow below instruction completely. This unit is shipped from the factory with its internal battery fully charged, however, some charge maybe lost during shipping and the battery should be recharged prior to use. Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 10 hours.

Storage Temperature	Recharge Frequency	Charging Duration
5 to 86°F(-15 to 30°C)	Every 6 Months	10 Hours
86 to 113°F(30 to 45°C)	Every Month	

7. Indication and control.

1. AC Normal mode:
This icon is displayed when utility power is normal.
2. Display of Input & Output voltage.
When UPS is turn on, LCD will show input and output voltage, input voltage will blink continuously in back-up mode.
3. Battery Capacity:
Estimated battery capacity, the accuracy is influenced by UPS operation mode and load level.
4. - Load Level:
Indicates the percentage of full load according to the model capacity.
5. -Back-up Mode:
This icon is displayed when UPS is under battery mode.

6. Overload:
This icon is displayed when loads exceed 120% of UPS rated capacity.
7. Fault Mode:
This icon becomes illuminated and the alarm will sound continuously in the event of abnormal operation.
8. Battery Fail:
This icon is displayed when battery needs to be changed.



8. Specifications.

MODEL		R-Smart 751	R-Smart 1010
Capacity		750VA/375W	1000VA/500W
Input	Voltage	110/115/120Vac	
	Voltage Range	-30% +25%	
	Frequency	120V System: 80 Vac- 145Vac (Tolerance: 85Vac-150Vac) 50Hz / 60Hz (Auto-Sensing)	
	Max. Input Current (Bypass)	10 Amps /1200W	10 Amps/1200W
Output	Voltage Regulation AC Mode	110/115/120Vac +/- 10%	
	Voltage Regulation Battery Normal	110/115/120Vac +/- 10%	
	Frequency	50Hz / 60Hz ± 1Hz	
	Waveform	Simulated Sinewave	
	Transfer Time	<6ms (Typical)	
	Outlets Nema 5-15R	5pcs Back up/ AVR + 5pcs surge protected	
Protection	Data line protection	RJ - 45	
	Voltage	12VDC	
Battery	Type	12V/7AH	12V/9AH
	Recharge Time	5hr to 90% after complete discharge	
	Safety Protection	Over Charge & Over Discharge Protection	
	Back-up Time (Load with 1 PC)	20 Minutes	30 Minutes
	LCD Display	Input & Output voltage, load level, AC Normal, Overload, Battery level, Battery fail, Fault.	
Audible Alarm	Battery Mode	Two short tones every 8 seconds	
	Low Battery	Four short tones every second	
	Overload	Buzzer: Beeping continuous	
Function	Fault	Beeping continuous	
	AVR (Automatic Voltage Regulation)	2 Boost + 1 Buck	
	Coax Protector	Yes	
	DC Start Funcion	Yes	
	Auto Restart UPS	Yes	
	Over/Under Voltage Protection	Yes	
	No-load Cut-off (Green Mode)	Yes	
	Silence The Audible Alarm	Yes	
	Off-mode Charging	Yes	
	Short Circuit Protection	AC Fuse / Breaker (Line Mode) ; Electronics Circuit (Back-up Mode)	
	Lightning/Surge Protection	560 Joules (110/115/120Vac)	
	Communication Port	USB Port	
	Software	Shutdown Software (Supporting Windows 98/NT/2000/Me/XP/2003/Vista/7/8/10)	
Environment	Operating Temperature	0° C - 40° C (32°F~104°F)	
	Humidity	0-95% (Non-condensing)	
	Acoustic Noise	<40 dB at 1M	
Physical	Dimension (D.W.H) mm	230*110*207	
	Net Weight (kgs)	5.5 Kgs	6.5 Kgs
Design, Manufacture, Service		ISO9001-2008	

"Specifications subject to change without notice"

9. Trouble Shooting.

Upon UPS failure, please check UPS by following below steps. If there is no problem with below points, please contact your dealer for UPS for service.

- Is main power switch turned on?
- Is the UPS plugged into a working wall outlet?
- Is the line voltage within the rating specified?
- Is the fuse blowned (at rear panel)?
- Is the UPS over-loaded?
- Is battery not fully charged?

Please provide the following information when call for service.

1. Model number, serial number.
2. Date of the problem occurred, date of purchase.
3. Full description of the problem including load, LCD, and alarm status, installation condition, working environment, etc.

TROUBLESHOOTING CHART		
PROBLEMA	POSSIBLE CAUSA	ACTION TO TAKE
UPS cannot turn on LCD not light.	ON/OFF/SILENCE button not pushed or push-time too short.	Press ON/OFF/ SILENCE button more than 1 second.
	Battery voltage less than 10V.	Recharge the Battery.
	PCB failure.	Replace the PCB, call for service.
	Load less than 25w at battery mode.	Normal condition, "No load shutdown function" is active.
	Power cord loose.	Plug in the power cord.
	AC fuse burn out.	Replace the AC fuse.
UPS always at battery mode.	PCB failure.	Replace the PCB, call for service.
	Battery not fully charged.	Recharge the UPS at least 5 hours.
Backup time too short.	Battery defective.	Replace the Battery, call for service.
	Buzzer continuous beeping	Overload.
		Remove some loads.

Warranty

CHICAGO DIGITAL POWER INC. warrants this product for a period of one year (with possible extension up to 2 years) on **all** parts and **labor** against defects and workmanship from the date of delivery to the consumer.

I. To enforce this guarantee greater requirement cannot be required that the presentation of this policy with the product (except Mexico) in the place of purchase or service center CHICAGO DIGITAL POWER INC. against defects in manufacture and operation, imperfections of materials, parts, components and **labor**. For information on service centers in your country, so you should contact (other countries write servicio@cdpups.com):

Bolivia: 800-100156
El Salvador: 800-6773
Mexico: 001800-5148611

Colombia: 01800-5181617
Panama: 01100800-2268611
Dominican Republic: 1888-7514876

Costa Rica: 800-4357237
Peru: 0800-54674
Venezuela: 0800-1627485

II. CHICAGO DIGITAL POWER INC. will repair the product and in the event that you consider not to be beyond repair, to change the team, as well as defective parts and components thereof without charge to the owner during the warranty period, and the cost Transportation Product reasonably incurred arising from compliance.

III. The repair time will not exceed thirty days from the date of receipt of the product at any of the sites where it can be guaranteed and where may also purchase parts and parts.

IV. Should this warranty policy is lost, the consumer can use your provider to issue a duplicate of the warranty policy on presentation of the sales slip or invoice.

This warranty does not apply in the following cases:

- a) When the product has been used in other than normal conditions.
- b) The product has not been operated in accordance with the instruction manual that accompanies it.
- c) The product has been altered or repaired by persons not authorized by the domestic manufacturer, importer or marketer respective responsible.
- d) Does not apply to normal wear or damage from accidents. Lack of physical earth and reversed polarity will void warranty.

(Please fill and deliver this data. Other way you won't be granted to access to the warranty)
(Warranty won't be given if the unit isn't with this format at the time of giving back to purchase point)

Name: _____	Purchase point seal
Address: _____	
Phone: _____ E-mail: _____	
Name and adress purchase site: _____	
Purchase point e-mail: _____	
Product: Regulator <input type="checkbox"/> UPS <input type="checkbox"/> No-Break <input type="checkbox"/> Inversor <input type="checkbox"/>	Delivery date
Model: _____	