

**Line-R**<sup>®</sup>  
**Automatic Voltage Regulator**  
Models LC300-BR, LC300BI-BR

Thank you for purchasing APC's Line-R Automatic Voltage Regulator! Please fill out and mail the product warranty registration form, or fill out an online form at www.apc.com.

Chronically abnormal line voltage is often the result of adjustments made to the power station to conserve energy, or to compensate for low voltages in other areas. Locally, the operation of heavy loads such as air conditioners, office copiers, and laser printers may cause temporary voltage fluctuations.

The Line-R is a high-performance, microprocessor-controlled tap changing device which automatically corrects undervoltage (by boosting low voltage) and overvoltages (by stepping down high voltage) from the power utility service to levels that are safe for computers, as well as other sensitive equipment. APC's Line-R provides the highest degree of protection from line voltage sags and swells, and has been designed for many years of reliable, maintenance-free service.

**Please Read This Manual**

This manual provides safety, installation and operation instructions that, when followed, will ensure the fullest performance and service life that the Line-R can provide. Please save this manual. It includes important instructions for the safe use of this product, as well as information necessary to obtain factory service, if necessary.

**Applications**

**CAUTION:** The total power consumption of all equipemnt plugged into the Line-R must not exceed 300VA. A total load in excess of 300VA will turn the unit off even if the switch is still on "ON" position. To find out the correct power consumption of your equipment, check the input voltage of the equipment in the user manual. If this consumption is expressed in watts (W), multiply the value by 1.45 in order to check it in VA. This power factor is mostly used for computer equipment.

The Line-R is designed for use with voltage sensitive equipment such as: a home computer, monitor, inkjet printer, scanner or fax. It is also designed for use with home electronics equipment such as televisions, stereos, CD players, VCRs, and DVD players, data processing equipment, modems, typewriters, calculators, and telephone equipment.

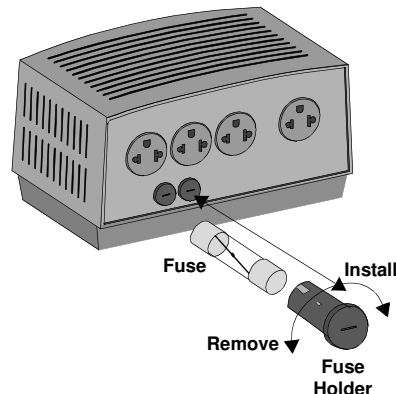
Appliances not suitable for use with the Line-R are items such as refrigerators, freezers, power tools, air conditioners, dehumidifiers, blenders, or any device that employs an AC motor for operation. Not for use with small fuel generators. Also excluded are life sustaining equipment and any device with a power requirement higher than 300 VA.

When using the Line-R with an Uninterruptible Power Supply (UPS), connect the UPS to the Line-R's output, then connect the Line-R to the wall outlet.

**Fuse Replacement**

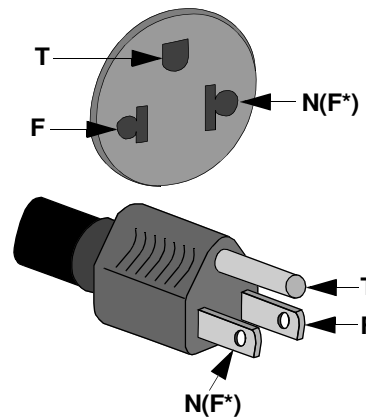
For safety purposes, the Line-R provides user-replaceable fuses to protect the unit from being overloaded. The monovolt unit (LC300-BR) contains a single fuse. The bivolt unit (LC300BI-BR) contains two fuses. See *Specifications* table for replacement fuse ratings. Replace a faulted fuse with a fuse of the same exact type and rating.

**CAUTION:** Unplug the Line-R from the wall outlet before replacing the fuse.



**Polarization Standard**

In order to comply with all installation practices and standards, as well as to avoid the risk of electrical shock, the Line-R must be connected in places having proper grounding. The network phase conductors where your equipment will be connected must be protected by fuses or circuit breakers, and it must be bipolar if used in a biphas network.

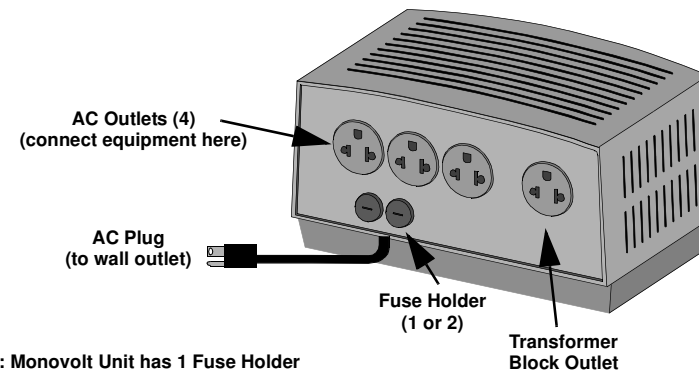
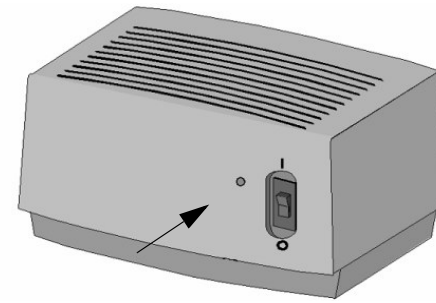


**Features**

**LED On:** Normal operation.

**LED Flashes:**

- Slowly: when the output voltage is above or below the normal range (6%).
- Quickly:
  - When the output is above or below of 10%. In this situation the unit will turn off automatically to protect the equipment.
  - When the input voltage is out of the operation range;
  - The power capacity is above of the specified.



**Note: Monovolt Unit has 1 Fuse Holder  
Bivolt Unit has 2 Fuse Holders**

**Installation**

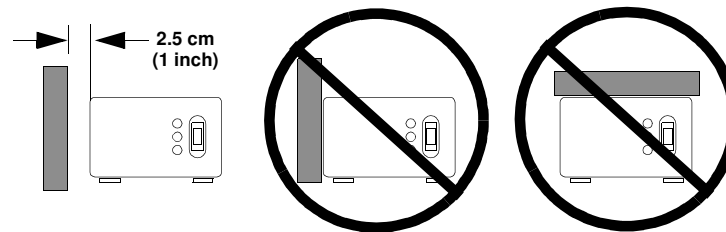
**• Inspection**

Remove the Line-R from the shipping container and inspect it for damage that may have occurred in transit. Notify the carrier and place of purchase if any damage is found. The packing materials are made of recyclable materials and should be saved for reuse or be disposed of properly.

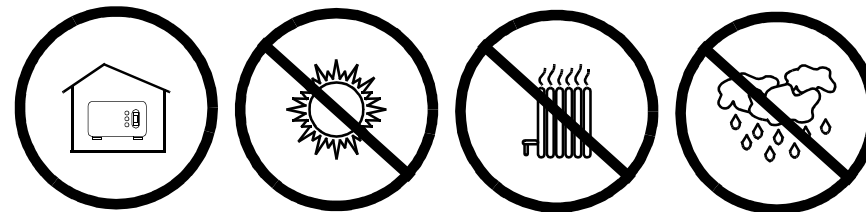
**• Placement**

Please install the Line-R in a protected environment.

Do not block the top or side air vents on the unit. Allow 2.5 cm (1 inch) minimum vent clearance.



Do not operate the Line-R in an environment where the ambient temperature or humidity is outside the limits listed in the *Specifications* section of this manual. Operate the Line-R in an environment free of excessive dust, mechanical vibration, inflammable gases and explosive or corrosive atmospheres.



**• Plug the Line-R into Wall Outlet**

Plug the Line-R (LC300-BR) into a 115 / 120 / 127 volt AC wall outlet. Or plug the Line-R (LC300BI-BR) into a 115 / 120 / 127 or 220 volt AC wall outlet. The wall outlet should be within easy access to the unit. The bivolt unit automatically senses the input voltage of either 115 / 120 / 127 or 220 volts and automatically outputs 120 volts (nominal).

**• Connect Your Equipment**

Plug equipment into the Line-R rear-panel outlets and switch the equipment ON. The equipment will not be powered until the Line-R is switched ON.

**CAUTION:** The total power consumption of all equipment plugged into the Line-R must not exceed 300VA. A total load in excess of 300VA will turn the unit off to protect the equipment.

**CAUTION:** Do not plug an L300-BR (120 / 127 volt input model) into a 220 volt outlet as this may damage the unit or the connected equipment. Check the label on the bottom of the unit to determine if it is a monovolt or bivolt unit.

**• Switch ON the Line-R**

Switch the Line-R ON by pressing the front panel ON/OFF switch to the ON (I) position. This switch may be used as the master ON/OFF switch for all equipment connected to the unit.

**Specifications**

Characteristics	LC300-BR	LC300BI-BR
Maximum Output Power Capacity	300 VA	
Voltage Type	Monovolt	Bivolt
Nominal Output Voltage	120V ±6%	
Nominal Input Current	2.5 A	2.5 A (120V) 1.4 A (220V)
Input Voltage Range	120V (94 - 156V)	120V (94 - 156V) 220V (174 - 264V)
Surge Energy	410 Joules	
Response Time	<3 AC Cycles	
Efficiency	>93% - for 120V	>93% - for 120V >91% - for 220V
Nominal Frequency	60 Hz	
Total Harmonic Distortion	<1.5%	
Number of Outlets	4	
Fuse 1 (for 120 volt operation)	250V, 4.0Amp, (Slo-Blo) (0,25 x 1,25 pol. 6,35 x 31,75 mm)	250V, 4.0Amp, (Slo-Blo) (0,25 x 1,25 pol. 6,35 x 31,75 mm)
Fuse 2 (for 220 volt operation)	None	250V, 2.5A, (Slo-Blo) (0,25 x 1,25 pol. 6,35 x 31,75 mm)
Operating Temperature	0 - 40°C (32 - 104°F)	
Relative Humidity	0 - 95% Non-condensing	
Dimensions	118 x 214 x 141 mm (4.6 x 8.4 x 5.5 inches)	
Weight	1,8 kg (4,4 lb.)	3,8 kg (6,6 lb.)

**Limited Warranty**

American Power Conversion (APC) warrants its products for a period of one year from the date of purchase.

Please contact APC for more details 0800 555 272.

<b>Brazil</b>	0800 555 272	<b>Internet</b>	www.apc.com/br
<b>Worldwide</b>	1.401.789.5735	<b>Tech Support</b>	http://www.apc.com/br/support