

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 brownouts (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 equipment plugged into the Line-R must not exceed 300 W or 300VA. A total load in excess of 300 W or 300 VA will cause the fuse to fault (blow).

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.

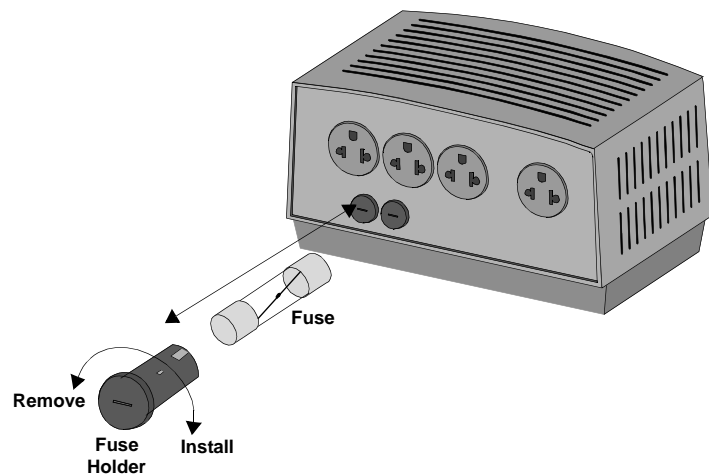
Appliances not suitable for use with the Line-R are items such as refrigerators, freezers, power tools, air conditioners, dehumidifiers, blenders, or any device that employs an AC motor for operation. Not for use with small fuel generators. Also excluded are life sustaining equipment and any device with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

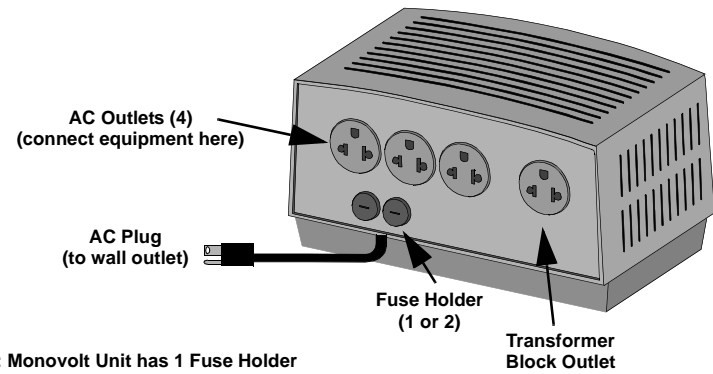
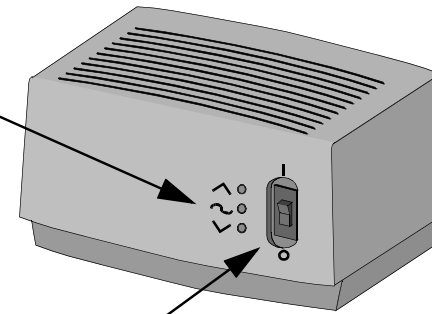
For safety purposes, the Line-R provides user-replaceable fuses to protect the unit from being overloaded. The monovolt unit (LR300-BR) contains a single fuse. The bivolt unit (LR300BI-BR) contains two fuses. See *Specifications* table for replacement fuse ratings. Replace a faulted fuse with a fuse of the same exact type and rating.

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



Features

- Lights when the Line-R is regulating above normal input voltage and the input voltage is within the normal input voltage range.
Flashes when the Line-R is regulating above normal input voltage and the input voltage is out of the input voltage range.
- Lights when the input voltage is normal.
- Lights when the Line-R is regulating below normal input voltage and the input voltage is within the normal input voltage range.
Flashes when the Line-R is regulating below normal input voltage and the input voltage is lower than the input voltage range.



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

Installation

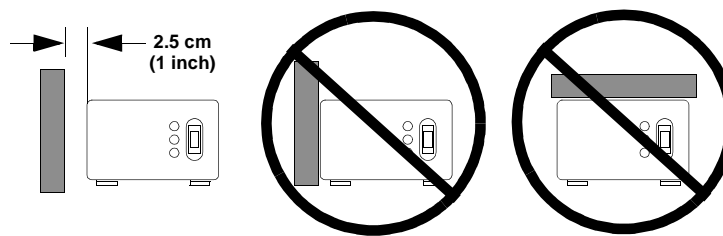
Inspection

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.

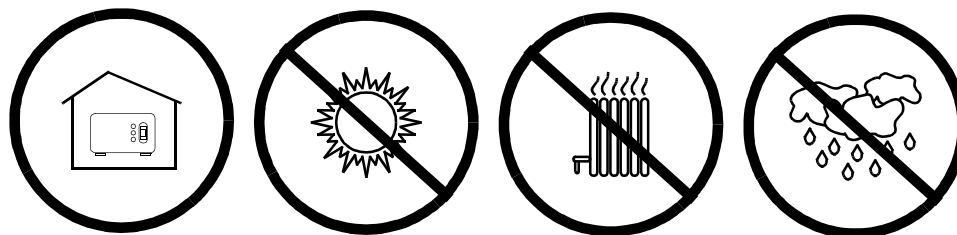
Placement

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 (LR300-BR) into a 115 volt AC wall outlet. Or plug the Line-R (LR300BI-BR) into a 115 or 220 volt AC wall outlet. The bivolt unit automatically senses the input voltage of either 115 or 220 volts and automatically outputs 115 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 300 W or 300 VA. A total load in excess of 300 W or 300 VA will cause the fuse to fault (blow).

CAUTION: Do not plug an LR300-BR (115 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	LR300-BR	LR300BI-BR
Maximum Output Power Capacity	300 W or 300 VA	
Voltage Type	Monovolt	Bivolt
Nominal Output Voltage	115V ±6%	
Nominal Input Current	2.6 A	2.6 A (115V) 1.4 A (220V)
Input Voltage Range	93 - 132 V	93 - 132 V (115V) 180 - 235 V (220V)
Surge Energy	450 Joules	
Output Regulation	±6%	
Response Time	<3 AC Cycles	
Efficiency	>93%	
Nominal Frequency	60 Hz	
Total Harmonic Distortion	<1.5%	
Number of Outlets	4	
Fuse 1 (for 115 volt operation)	250V, 4A, Slo-Blo Type (.25 x 1.25 in. 6.35 x 31.75 mm)	250V, 4A, Slo-Blo Type (.25 x 1.25 in. 6.35 x 31.75 mm)
Fuse 2 (for 220 volt operation)	None	250V, 2A, Slo-Blo Type (.25 x 1.25 in. 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	2.5 kg (5.5 lb.)	3.0 kg (6.6 lb.)

Limited Warranty

American Power Conversion (APC) warrants its products to be free from defects in materials and workmanship for a period of one year from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its sole option, any such defective products. To obtain service under warranty you must obtain a Return Material Authorization (RMA) number from APC or an APC service center. Products must be returned to APC or an APC service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment which has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies to the original purchaser who must have proper registered the product within 10 days of purchase.

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