Line-R™

Automatic Voltage Regulator
Models LS600-LM60 and LS1200-LM60

Safety Messages

Read the instructions carefully to become familiar with the equipment before attempting to install, operate, service or maintain the AVR (Automatic Voltage Regulator). The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to either a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Safety Information

- Adhere to all national and local electrical codes.
- All wiring must be performed by a qualified electrician.

- Changes and modifications to this unit not expressly approved by APC by Schneider Electric could void the warranty.
- This product is intended for indoor use only.
- Do not operate this product in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.
- Do not block the air vents on the AVR. Allow adequate space for proper ventilation. Allow 1 inch (2.5 cm) minimum vent clearance.

Product Description

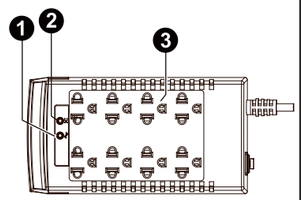
The Line-R automatically corrects brownouts (by boosting low voltage) and overvoltages (by stepping down high voltage) from the power utility service to levels that are acceptable for computers, as well as other sensitive equipment. APC by Schneider Electric Line-R provides a high degree of protection from line voltage sags and swells, and has been designed for reliable, maintenance-free service.

Applications

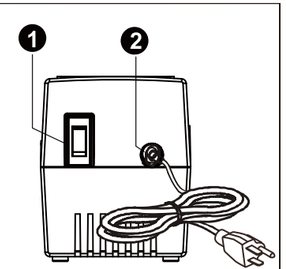
Note: The total power consumption of all equipment plugged into the Line-R must not exceed the "Maximum Output Power Capacity" rating listed in the *Specifications* table.
The Line-R is designed for use with voltage sensitive equipment such as computers, monitors, printers, scanners, televisions, stereos or other AV equipment.
Do not use with life sustaining equipment and any device with a power requirement exceeding the "Acceptable Voltage Range" rating listed in the *Specifications* table.

Features

Top Panel		
❶	**Power LED**	Illuminates when input voltage is within normal range
❷	**AVR LED**	Illuminates when input voltage is below or higher the rated Input Voltage Range
❸	**AC Outlets**	These outlets supply power to connected equipment when the Line-R is connected to AC power



Rear Panel		
❶	**Power Switch**	Use this as the master power switch to turn the Line-R and all connected equipment on (**I**) or off (**O**).
❷	**AC Power Cord**	Use this cable to connect the Line-R to AC power.



Installation

- Plug the Line-R into a Wall Outlet - Plug the Line-R into a wall socket. Connect your computer or other electronic equipment to any of the three outlets on the top panel of the Line-R. The Line-R should only be used in buildings that have proper grounding on a branch circuit protected by a fuse or circuit breaker.
- **Connect Your Equipment -** Plug equipment into the Line-R top-panel outlets and switch the equipment ON. The equipment will not be powered until the Line-R is switched on.
  Note: The total power consumption of all equipment plugged into the Line-R must not exceed the ratings listed in the *Specifications* table below.
- **Switch ON the Line-R -** Press the back panel power switch to the on (**I**) position. This switch may be used as the master switch for the device and all equipment connected to it.

Specifications

Characteristics	LS600-LM60	LS1200-LM60
Maximum Output Power Capacity	300 W or 600 VA	600 W or 1200 VA
Nominal Output Voltage	120V	
Nominal Input Current	3.12 A	6.25 A
Acceptable Voltage Range Tolerance	96-148 VAC	
Surge Energy	90 Joules	
Rated Input Voltage	120 Vac	
Maximum Acceptable Input Voltage	148 Vac	
Output Regulation	10%	
Response Time	6 ms	
Efficiency	>95%	
Nominal Frequency	60 Hz	
Number of Outlets	8	
Operating Temperature	32 - 104°F (0 - 40°C)	
Relative Humidity	0-90% Non-condensing	
Dimensions	7.0 x 3.7 x 4.5 inches(180 x 95 x 119 mm)	
Weight	1.14 kg (2.5 lb)	1.24 kg (2.7 lb)

Limited Warranty

Schneider Electric IT (SEIT) warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. SE IT obligation under this warranty is limited to repairing or replacing, at its sole discretion, any such defective products. This warranty does not apply to battery wear from use, equipment that has been damaged by accident, negligence or misapplication or has been altered or modified in any way. SEIT standard procedure is to replace the original unit with a factory reconditioned unit. Customers who must have the original unit back due to the assignment of asset tags and set depreciation schedules must declare such a need at first contact with an SEIT Technical Support representative. SEIT will ship the replacement unit once the defective unit has been received by the repair department, or cross ship upon the receipt of a valid credit card number. The customer pays for shipping the unit to SEIT. SEIT pays ground freight transportation costs to ship the replacement unit to the customer. For full warranty information refer to www.apc.com.

APC by Schneider Electric IT Customer Support Worldwide

For country specific customer support, go to the APC by Schneider Electric Web site, www.apc.com.

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