Line-R™

Automatic Voltage Regulator
Models LE600-RS and LE1200-RS

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 a Danger or Warning safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

The addition of this symbol to a Warning or Caution product safety label indicates that a hazard exists that can result in injury and product damage if the instructions are not followed.

⚠ CAUTION

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

CAUTION

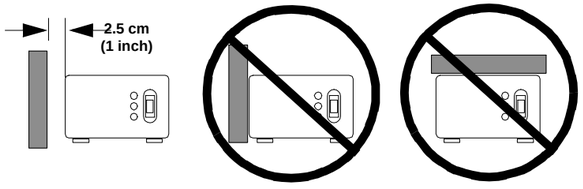
CAUTION addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.

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.



Additional safety information can be found in the Safety Guide supplied with this unit.

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 safe for computers, as well as other sensitive equipment. APC by Schneider Electric Line-R provides the a high degree of protection from line voltage sags and swells, and has been designed for reliable, maintenance-free service.

Applications

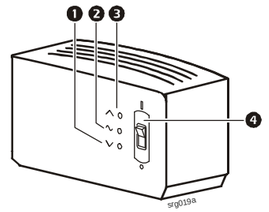
Note: The total power consumption of all equipment plugged into the Line-R must not exceed the "Maximum Output Power Capacity" rating listed in the *Specifications* table. A total load in excess of this rating will cause the circuit breaker to "trip".

The Line-R is designed for use with voltage sensitive equipment such as computers, monitors, printers, scanners, televisions, stereos or other AV equipment.

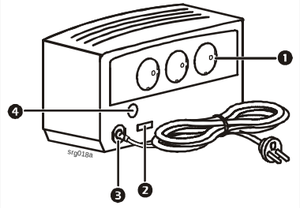
Do not use with life sustaining equipment and any device with a power requirement exceeding the "Maximum Output Power Capacity" rating listed in the *Specifications* table.

Features

Front Panel		
❶	**Low Voltage LED**	Illuminates when input voltage is low. Flashes when input voltage is below the rated Input Voltage range.
❷	**Normal Voltage LED**	Illuminates when input voltage is within normal range.
❸	**High Voltage LED**	Illuminates when input voltage is high. Flashes when input voltage is above the rated Input Voltage range.
❹	**Power Switch**	Use this as the master power switch to turn the Line-R and all connected equipment on (**I**) or off (**O**).



Rear Panel		
❶	**A/C Outlets**	These outlets supply power to connected equipment when the Line-R is connected to A/C power.
❷	**User Selectable Voltage Switch**	Use this switch to adjust the voltage. Refer to "Select Input Voltage".
❸	**A/C Power Cord**	Use this cable to connect the Line-R to A/C power.
❹	**Circuit Breaker**	Use the circuit breaker to reset the system after an overload condition has occurred causing the circuit breaker to trip. Unplug the last device connected to the unit and push the circuit breaker fully inward.



Installation

- Select Input Voltage - The Line-R provides a three-position User Selectable Voltage Switch for adjusting the input voltage for the region where it is being used (Example: Russia - 220 V, Denmark - 230 V, United Kingdom - 240 V). Slide the switch to select the proper voltage for your location.
- 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 rear 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 rear-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. A total load in excess of the listed ratings will cause the push button circuit breaker to "trip".
- **Switch ON the Line-R -** Press the front 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	Model LE600-RS	Model LE1200-RS
Maximum Output Power Capacity	600 W or 600 VA	1200 W or 1200 VA
Nominal Output Voltage	220, 230, or 240V (User Selectable)	
Nominal Input Current	2.6 A	5.2 A
Acceptable Voltage Range Tolerance	160 - 270V (Selector Switch set to 220V) 166 - 280V (Selector Switch set to 230V) 170 - 290V (Selector Switch set to 240V)	
Rated Input Voltage	230 Vac	
Maximum Acceptable Input Voltage	300 V	
Surge Energy	300 Joules	
Output Regulation	±10%	
Response Time	< 2 AC Cycles	
Efficiency	>92%	
Nominal Frequency	47 - 63 Hz	
Number of Outlets	3	
Operating Temperature	32 - 104°F (0 - 40°C)	
Relative Humidity	0 - 95% Non-condensing	
Dimensions	4.6 x 8.4 x 5.6 inches (118 x 214 x 148 mm)	
Weight	3.1 kg (6.8 lb)	4.2 kg (9.2 lb)

Limited Warranty

The standard warranty is two (2) years from the date of purchase. The APC by Schneider Electric standard procedure is to replace the original unit with a factory reconditioned unit.

On first contact with APC Technical Support the customer must advise the representative if the unit has as an asset tag and must returned to the customer after repairs are completed.

APC by Schneider Electric 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 APC by Schneider Electric. APC by Schneider Electric pays ground freight transportation costs to ship the replacement unit to the customer.

APC by Schneider Electric Worldwide Customer Support

Customer support for this or any other APC by Schneider Electric product is available at no charge in any of the following ways:

- Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
  - www.apc.com (Corporate Headquarters)
    Connect to localized APC Web sites for specific countries, each of which provides customer support information.
  - www.apc.com/support/
    Global support searching APC Knowledge Base and using e-support.
- Contact the APC by Schneider Electric Customer Support Center by telephone or e-mail.
  - Local, country specific centers: go to www.apc.com/support/contact for contact information.
  - For information on how to obtain local customer support, contact the APC by Schneider Electric representative or other distributor from whom you purchased your APC by Schneider Electric product.

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