

TRIPP LITE LC1800

Tripp Lite LC1800 Power Conditioner User Manual

Brand: TRIPP LITE | Model: LC1800

1. INTRODUCTION

The Tripp Lite LC1800 1800W 120V Power Conditioner is designed to adjust under- and overvoltages, providing stable, computer-grade AC power that meets ANSI C84.1 specifications. Its built-in Automatic Voltage Regulation (AVR) corrects voltage fluctuations, extending equipment life and ensuring continuous operation through brownouts and prolonged overvoltage conditions. The LC1800 also features network-grade surge suppression, exceeding IEEE-587 standards, to protect against damaging power surges and spikes. Integrated EMI/RFI noise filtering further safeguards sensitive electronics from disruptive electromagnetic and radio interference, maintaining clean and stable power.

Key Features:

- **1800W Line Conditioner:** Corrects undervoltages by 9% (below 111V +/-3V) and 19% (below 102V +/-3V), and reduces overvoltages by 10% (above 128V +/-3V).
- **EMI/RFI Filter:** Removes up to 80 dB of line noise, crucial for audio equipment and sensitive electronics.
- **6 NEMA 5-15R Outlets:** Provides connectivity for up to six electronic devices.
- **1440 Joule Surge Suppression:** Offers robust protection against power surges and spikes.
- **Diagnostic LEDs:** Front-panel indicators for AC power, incoming voltage level, and line status.
- **Compact Design:** Streamlined unit (7 inches tall) with a 7ft NEMA 5-15P plug.

2. SETUP

Follow these steps to properly set up your Tripp Lite LC1800 Power Conditioner:

1. **Unpack the Unit:** Carefully remove the LC1800 and its instruction guide from the packaging.
2. **Placement:** Position the power conditioner in a well-ventilated area, away from direct sunlight, heat sources, or excessive moisture. Its compact design allows for flexible placement within your computer or home theater setup.
3. **Connect to Power Source:** Plug the attached 7-foot NEMA 5-15P power cord into a standard 120V AC wall outlet. Ensure the outlet is properly grounded.
4. **Connect Devices:** Plug up to six electronic devices (e.g., computers, routers, printers, home theater components) into the NEMA 5-15R outlets located on the rear of the unit.
5. **Power On:** Press the lighted ON/OFF switch to power on the unit. The diagnostic LEDs on the front panel will illuminate to indicate operational status.

LC1800 Feature Focus

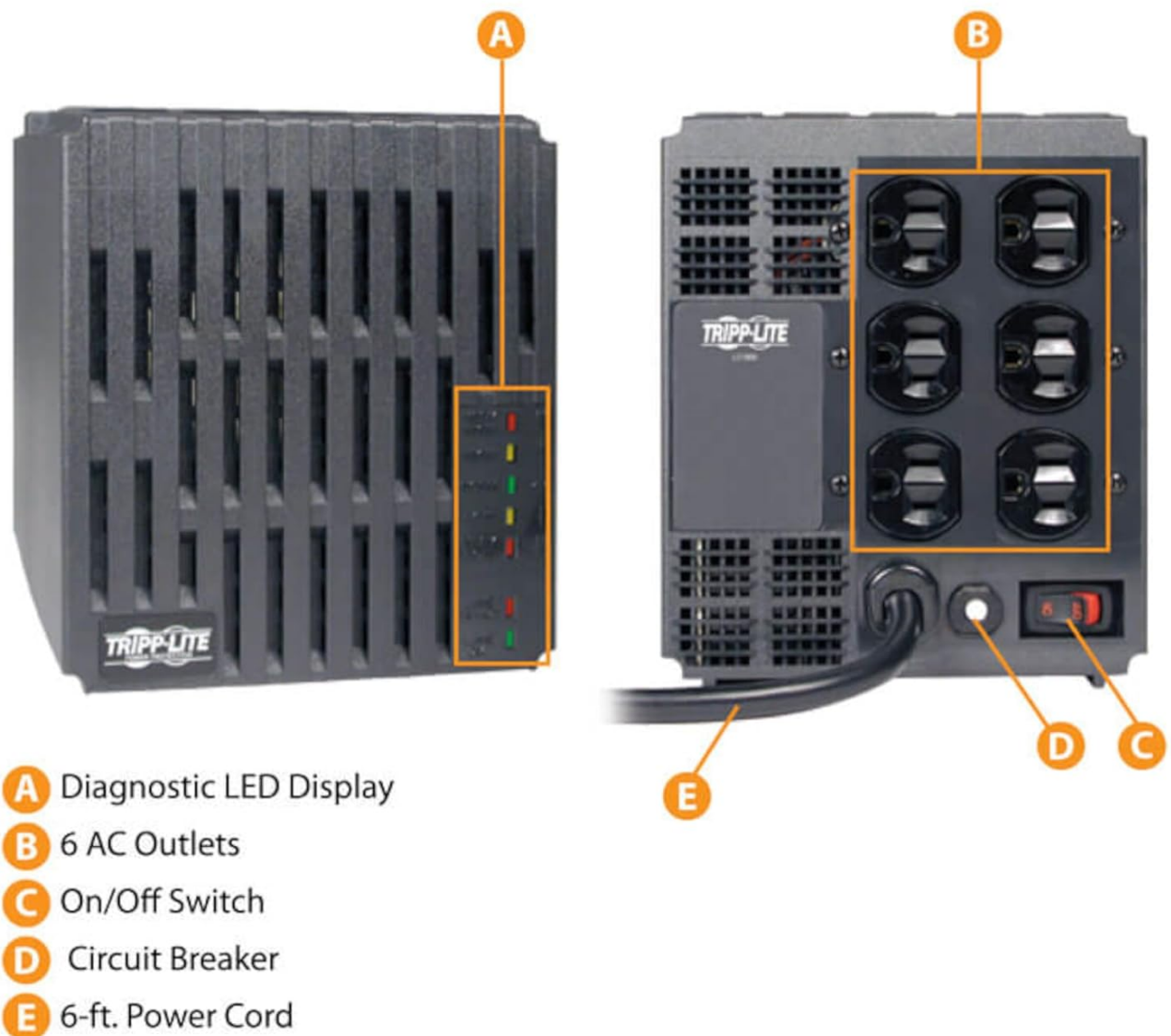


Figure 1: Rear view of the LC1800 with six NEMA 5-15R outlets and power connections.



Figure 2: The NEMA 5-15P plug for connecting to a wall outlet.

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Video 1: A product overview demonstrating the Tripp Lite 600W Power Conditioner, highlighting its features and compact design. While a different wattage model, the setup principles are similar.

3. OPERATING INSTRUCTIONS

The LC1800 is designed for simple operation. Once connected, it automatically begins regulating voltage and suppressing surges.

Powering On/Off:

- To power on the unit and connected devices, press the lighted ON/OFF switch.
- To power off, press the switch again.

Diagnostic LEDs:

The front panel features diagnostic LEDs that provide real-time status information:

- **AC Power:** Indicates the unit is receiving AC power.
- **Incoming Voltage Level:** Shows if the incoming voltage is normal, boosted, or trimmed.
- **Line Status:** Provides information on the quality of the incoming power.



Figure 3: Front panel with diagnostic LEDs indicating power status.



Figure 4: Diagram illustrating the key features and components of the LC1800.

4. MAINTENANCE

The Tripp Lite LC1800 Power Conditioner is designed for long-term, reliable operation with minimal maintenance. However, following these guidelines will help ensure its continued performance:

- **Cleaning:** Keep the unit clean and free of dust. Use a dry cloth to wipe the exterior. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure adequate airflow around the unit. Do not block the ventilation slots.
- **Environmental Conditions:** Operate the unit within its specified environmental limits (temperature, humidity).
- **Internal Components:** The LC1800 contains no user-serviceable parts. Do not attempt to open or repair the unit. Refer all servicing to qualified service personnel.

5. TROUBLESHOOTING

If you experience issues with your LC1800, consult the diagnostic LEDs and the information below:

Problem	Possible Cause	Solution
No power to connected devices	Unit is off; tripped circuit breaker; no incoming AC power.	Ensure ON/OFF switch is pressed. Check the circuit breaker on the unit and your building's electrical panel. Verify wall outlet has power.
Diagnostic LEDs indicate abnormal voltage (Boost/Trim)	Incoming voltage is outside normal operating range.	This indicates the AVR is actively correcting the voltage. No action is required unless devices malfunction.
Line Status LED indicates fault	Wiring fault in the building's electrical system.	Consult a qualified electrician to inspect your building's wiring.

If problems persist, contact Tripp Lite technical support.

6. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	LC1800
Power Capacity	1800W
Input Voltage	120V
Outlets	6 x NEMA 5-15R
Input Plug	NEMA 5-15P (7ft cord)
Surge Suppression	1440 Joules
EMI/RFI Noise Filtering	Up to 80 dB
Product Dimensions	10.2 x 8.7 x 7.8 inches
Item Weight	9.9 pounds
Manufacturer	Tripp Lite
Date First Available	June 6, 2007

7. WARRANTY AND SUPPORT

The Tripp Lite LC1800 Power Conditioner is backed by comprehensive warranty and support services:

- **Manufacturer's Warranty:** This product is protected by a 2-Year Manufacturer's Warranty.
- **Connected Equipment Insurance:** Includes \$25,000 Ultimate Connected Equipment insurance for added peace of mind.
- **Technical Support:** Supported by Eaton's expert technical support team, available via phone, web, and email.

Important Note: Warranty does not cover misuse of the product.

8. ADDITIONAL RESOURCES

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Video 2: An informational video from Tripp Lite providing further details about their products, including the LC1800 series.

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Video 3: A buyer's guide comparing the Tripp Lite LC1800 and LC2400 models, offering insights into their differences and suitable applications.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question