

TRIPP LITE SMART1500LCD

Tripp Lite SMART1500LCD 1500VA Rack Mount UPS Instruction Manual

MODEL: SMART1500LCD

Brand: TRIPP LITE

1. Introduction

The Tripp Lite SMART1500LCD is a 1500VA / 900W line-interactive Uninterruptible Power Supply (UPS) designed to provide reliable battery backup and AC power protection. It safeguards connected equipment against blackouts, brownouts, overvoltages, surges, and line noise. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your SMART1500LCD UPS.

2. Features

- **1500VA/900W Capacity:** Provides robust battery backup and surge protection for servers, computers, and peripherals.
- **8 NEMA 5-15R Outlets:** Offers ample connectivity for multiple devices.
- **2U Rack Mount / Vertical Tower:** Versatile installation options with included hardware.
- **Automatic Voltage Regulation (AVR):** Corrects brownouts (as low as 75V) and overvoltages (as high as 147V) to a nominal 120V without using battery power.
- **PWM Sine Wave Output:** Delivers clean power in battery mode and Sine Wave in AC mode for low total harmonic distortion.
- **User-Replaceable Batteries:** Internal batteries can be easily replaced with Tripp Lite's RBC1500 model.
- **RJ45 Ethernet Port:** Provides dataline surge protection up to 100 Mbps.
- **Rotatable LCD Screen:** Displays real-time operational details including voltage, runtime, load, battery status, and operating mode.
- **Advanced Communications Ports:** RS-232 and USB ports allow connection to a computer for free

PowerAlert® software, enabling safe unattended system shutdown during prolonged outages. Cables are included.

3. Setup

3.1 Unpacking and Initial Inspection

Carefully unpack the UPS and inspect it for any shipping damage. Retain the packaging for future use or shipping. The package includes the UPS unit, USB cable, DB9 cable, Network (RJ45) cord, mounting hardware, and the owner's manual.

Vertical Mount Adapter



Image: Contents of the Tripp Lite SMART1500LCD UPS package. This image displays the UPS unit, various cables (USB, DB9, RJ45), mounting hardware, and documentation included in the box.

3.2 Battery Connection

The internal batteries are shipped disconnected to prevent discharge. Before initial use, connect the internal battery pack. Refer to the owner's manual for detailed instructions on connecting the battery.

3.3 Installation Options

The SMART1500LCD offers flexible installation:

- **2U Rack Mount:** Use the included hardware to mount the UPS in 2U of 19-inch rack space.
- **Vertical Tower:** Utilize the included brackets for vertical tower installation. The control panel can be rotated to accommodate this configuration.



Image: Tripp Lite SMART1500LCD UPS installed in a server rack. The image shows the UPS unit mounted horizontally within a standard server rack, demonstrating its rackmount capability.

Easy-to-Read LCD

Displays UPS and site electrical conditions

On/Off/Mode
Button

Mute/Enter
Button



Image: Tripp Lite SMART1500LCD UPS with vertical mount adapter. This image illustrates the UPS unit standing vertically with its base brackets, and a close-up shows the rotatable LCD panel for proper viewing in this orientation.

3.4 Connecting Equipment

Connect your critical equipment (servers, computers, peripherals) to the 8 NEMA 5-15R outlets on the rear of the UPS. Ensure the input power cord is securely connected to a compatible AC outlet.

Reliable Battery Backup and Power Protection for Your Home or Office Electronics

Model: SMART1500LCD

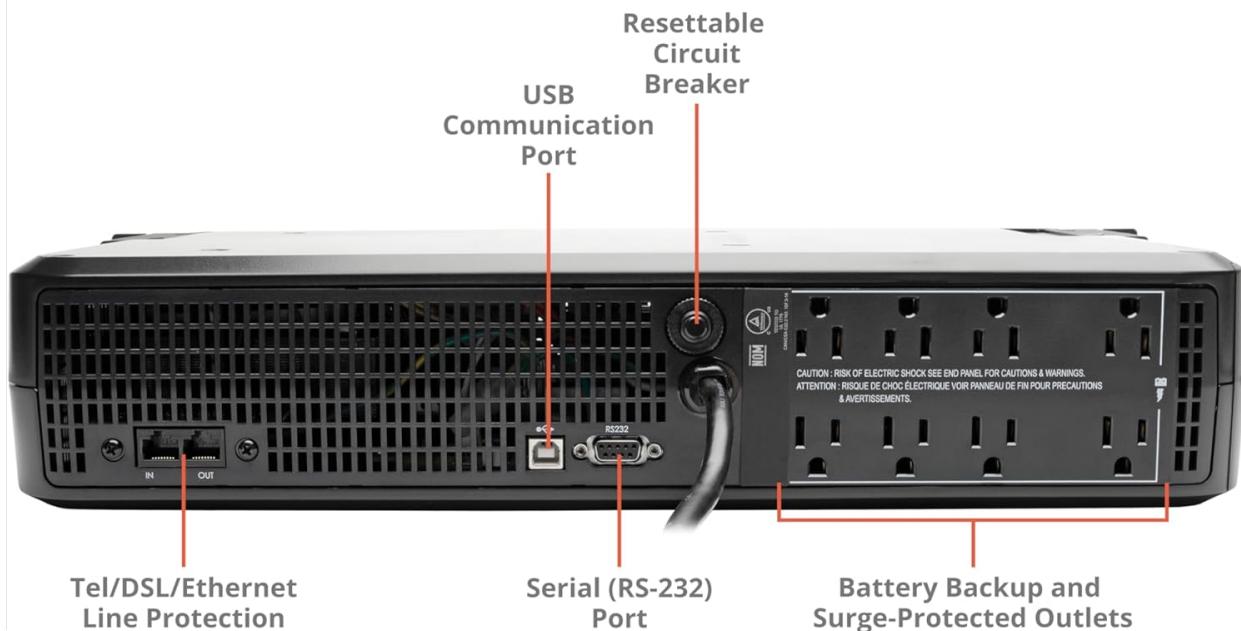


Image: Rear view of Tripp Lite SMART1500LCD UPS showing all ports and outlets. This image highlights the 8 NEMA 5-15R outlets, USB and RS-232 communication ports, and the RJ45 Ethernet ports for dataline protection.

4. Operating

4.1 LCD Display and Controls

The large LCD screen provides real-time information about the UPS status and site electrical conditions. Use the 'On/Off/Mode' and 'Mute/Enter' buttons to navigate through the display options and control the unit.

- **Display Information:** View input/output voltage, estimated runtime, load percentage, battery capacity, and operating mode.
- **On/Off/Mode Button:** Powers the UPS on/off and cycles through display modes.
- **Mute/Enter Button:** Silences alarms and confirms selections.

Line-Interactive Short-Depth Rack-Mount UPS

Model: SMART1500LCD



Image: Close-up of the Tripp Lite SMART1500LCD UPS LCD display and control buttons. The image shows the digital display indicating 'INPUT 120V' and battery capacity, along with the 'MODE' and 'MUTE' buttons.

4.2 PowerAlert Software

Download the free PowerAlert software from Tripp Lite's website to enable advanced monitoring and automatic shutdown capabilities for connected computers via the RS-232 or USB ports.

Video: "SMART1500LCD Line-Interactive SmartPro UPS System" by TRIPP LITE. This video provides a brief overview of the SMART1500LCD UPS, highlighting its key features and benefits as a line-interactive SmartPro UPS system.

5. Maintenance

5.1 Battery Replacement

The SMART1500LCD features user-replaceable, hot-swappable internal batteries (Tripp Lite RBC1500 model replacement battery). This allows for battery replacement without powering down connected equipment. Refer to the owner's manual for detailed battery replacement procedures.

Recyclable Batteries Are Field Replaceable and Hot Swappable



UPS backup battery replacement RBC1500 sold separately.

Image: Tripp Lite SMART1500LCD UPS with battery compartment open showing replaceable batteries. The image illustrates the ease of access to the internal batteries for replacement, emphasizing their field-replaceable and hot-swappable nature.

6. Troubleshooting

If you encounter issues with your UPS, consult the troubleshooting section in the owner's manual. Common issues may include alarms, unexpected shutdowns, or display errors. Ensure all connections are secure and the unit is receiving adequate power. For persistent problems, contact Tripp Lite technical support.

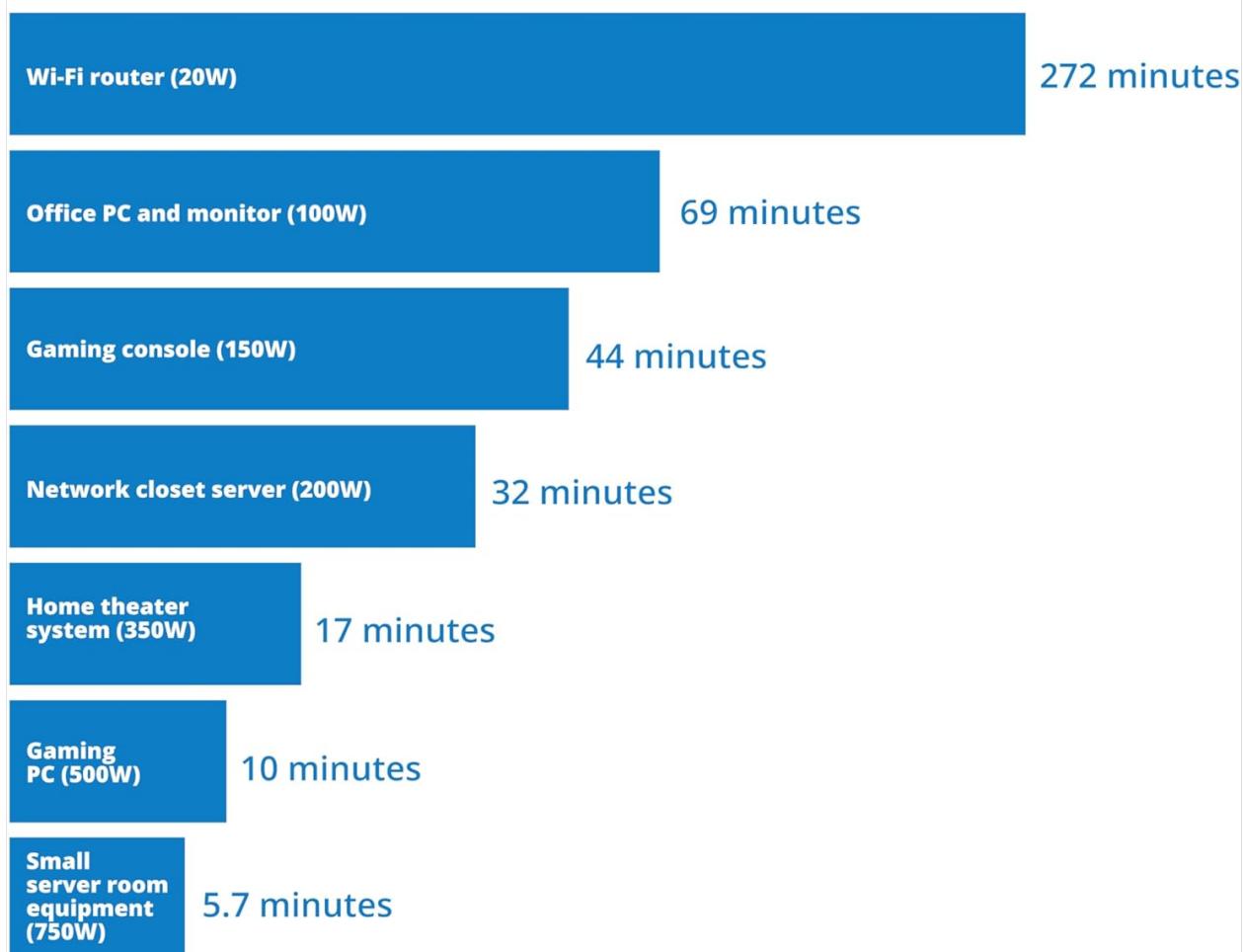
7. Specifications

Specification	Value
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Product Dimensions	10.5 x 17.25 x 3.5 inches (267 x 438 x 89 mm)
Item Weight	29 pounds
Model Number	SMART1500LCD
Batteries	2 Product Specific batteries required (included)
Battery Cell Composition	Lead Acid
Voltage	120 Volts
Color	Black

Runtime Examples

Model: SMART1500LCD



Applications shown are examples and may not be exact, depending on your specific use.
Runtime varies depending on load, battery age and environmental factors.

Image: Tripp Lite SMART1500LCD UPS with dimensions labeled. This image provides a visual representation of the UPS unit with its key dimensions (depth, width, height) clearly indicated in inches and millimeters.

7.1 Runtime Examples

The runtime of the UPS varies depending on the connected load. Here are some examples:

- Wi-Fi router (20W): 272 minutes

- Office PC and monitor (100W): 69 minutes
- Gaming console (150W): 44 minutes
- Network closet server (200W): 32 minutes
- Home theater system (350W): 17 minutes
- Gaming PC (500W): 10 minutes
- Small server room equipment (750W): 5.7 minutes

Protects Your Home/Office Equipment During Power Outages and Anomalies

Model: SMART1500LCD



ENERGY STAR
Certified



120V/1500VA/
900W



AC Surge Protection:
870 Joules



Automatic Voltage
Regulation (AVR)



User-
Replaceable
Batteries

Image: Bar chart showing runtime examples for Tripp Lite SMART1500LCD UPS. This chart illustrates approximate backup times for various devices with different power consumptions, such as Wi-Fi routers, PCs, and servers.

8. Warranty and Support

The Tripp Lite SMART1500LCD UPS is protected by a 3-Year Limited Manufacturer's Warranty and a \$250,000 Ultimate Connected Equipment Insurance. For any concerns or technical assistance, Eaton's expert technical team is available via phone, web, or email.

