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TRIPP LITE OMNI1500LCDT

Eaton Tripp Lite OMNI1500LCDT 1500VA UPS Battery Backup User Manual

Model: OMNI1500LCDT

1. INTRODUCTION AND OVERVIEW

The Eaton Tripp Lite OMNI1500LCDT 1500VA Uninterruptible Power Supply (UPS) provides comprehensive power protection for your electronic equipment. This unit safeguards against power outages, voltage fluctuations, and surges, ensuring continuous operation and protecting sensitive devices. It features a 1500VA/810W capacity, 10 outlets, Automatic Voltage Regulation (AVR), and an intuitive LCD screen for real-time status monitoring.

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your OMNI1500LCDT UPS.

2. SAFETY INSTRUCTIONS

Please read and follow all safety instructions carefully to prevent injury or damage to the unit and connected equipment.

- **Electrical Safety:** Connect the UPS to a grounded AC power outlet. Do not remove the grounding prong.
- **Indoor Use Only:** This UPS is designed for indoor use in a controlled environment. Avoid exposure to moisture, extreme temperatures, or direct sunlight.
- **Ventilation:** Ensure adequate airflow around the UPS. Do not block ventilation openings.
- **Battery Handling:** Batteries contain hazardous materials. Refer to local regulations for proper disposal. Only replace batteries with Tripp Lite RBC51 or equivalent.
- **Servicing:** There are no user-serviceable parts inside the UPS except for the battery. Refer all servicing to qualified service personnel.
- **Overload:** Do not overload the UPS. Ensure the total wattage of connected equipment does not exceed the UPS capacity (810W).

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- OMNI1500LCDT UPS Unit
- USB Communication Cable
- Power Cord (NEMA 5-15P)



Figure 3.1: OMNI1500LCDT UPS unit and included accessories.

4. FEATURES

The OMNI1500LCDT UPS offers a range of features designed for optimal power protection:

- **810W Battery Backup:** Provides temporary battery power during outages to allow for safe system shutdown.
- **10 Outlets:** Includes both battery backup/surge protected and surge-only protected outlets.
- **Automatic Voltage Regulation (AVR):** Corrects brownouts and overvoltages (between 92V and 150V) to a safe 120V without using battery power.
- **LCD Screen:** Displays real-time power information including battery runtime, wattage load, overload status, AVR status, input voltage, and battery status.
- **Surge Protection:** 650 joules of surge protection for connected equipment.
- **Dataline Protection:** 100 Mbps Ethernet RJ45 port protection and Telephone/DSL RJ11 port dataline protection.
- **User-Replaceable Batteries:** Internal batteries (Tripp Lite RBC51) can be easily replaced by the user.

Protects Your Home/Office Equipment During Power Outages and Anomalies

Model: OMNI1500LCDT



ENERGY STAR
Certified



120V/1500VA/
810W



AC Surge Protection:
650 Joules



Automatic Voltage
Regulation (AVR)



User-
Replaceable
Batteries

Figure 4.1: Key features of the OMNI1500LCDT UPS.

5. SETUP

5.1 Placement

Place the UPS in a cool, dry indoor environment, away from direct sunlight, heat sources, and excessive moisture. Ensure sufficient space around the unit for proper ventilation.

5.2 Connecting to Power

1. Connect the UPS power cord (NEMA 5-15P) to a grounded wall outlet.
2. Allow the UPS to charge for 24 hours before initial use to ensure maximum battery runtime.

5.3 Connecting Equipment

The OMNI1500LCDT features 10 outlets on its rear panel:

- **Battery Backup and Surge-Protected Outlets:** Connect critical equipment such as computers, monitors, and network devices to these outlets to ensure continuous power during outages.
- **Surge-Protected Outlets:** Connect non-critical equipment like printers or scanners to these outlets for surge protection only. These outlets do not provide battery backup.

Additionally, connect your Ethernet or telephone lines to the respective RJ45/RJ11 ports for dataline surge protection.

UPS Battery Backup and Surge Protection for Home and Office Electronics

Model: OMNI1500LCDT

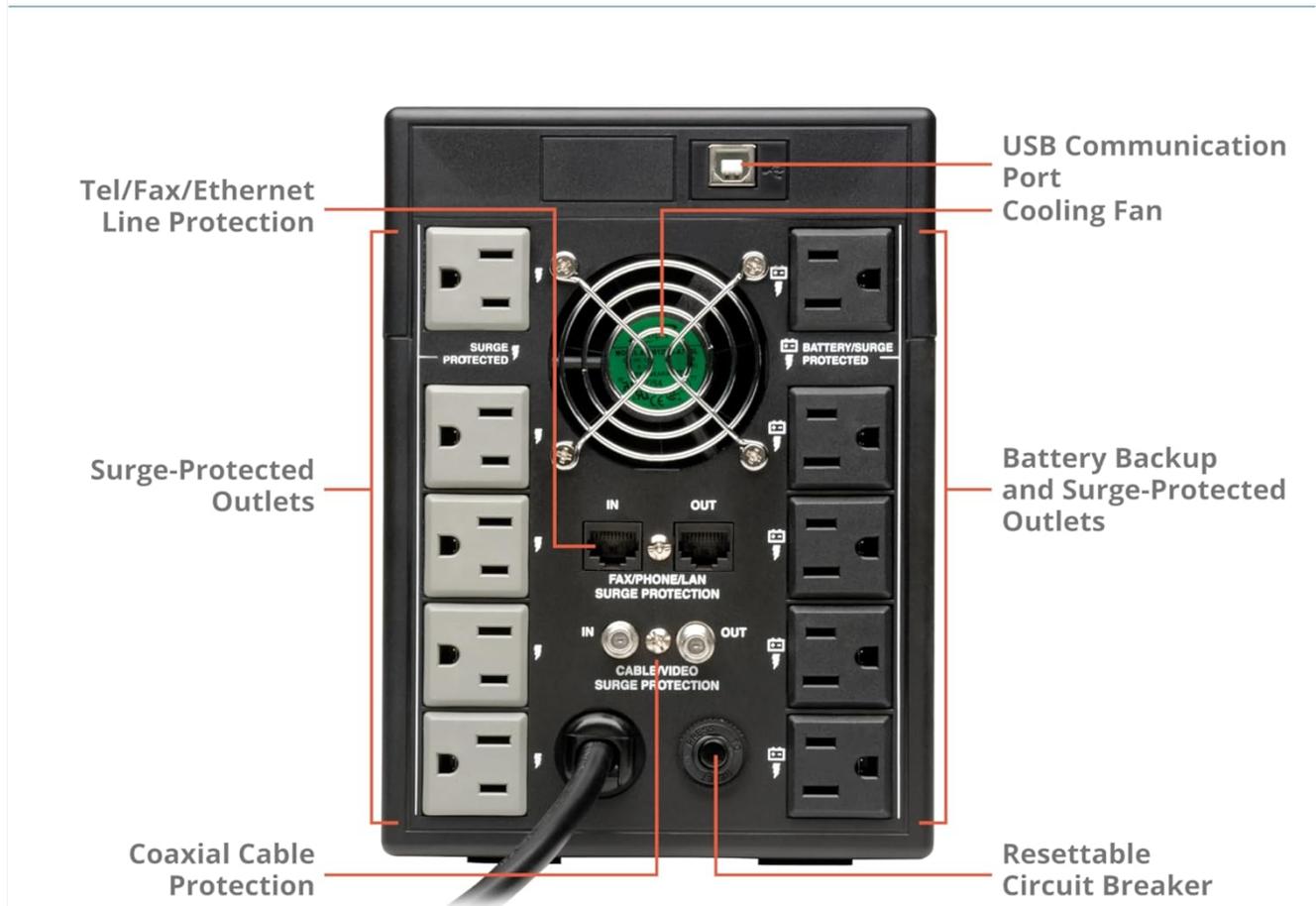


Figure 5.1: Rear panel connections of the OMNI1500LCDT UPS.

5.4 USB Communication Port

Connect the included USB cable from the UPS to your computer's USB port. This allows your computer to communicate with the UPS for automatic shutdown during extended power outages and to monitor UPS status using power management software (available from Tripp Lite's website).

6. OPERATION

6.1 Powering On/Off

- **To Power On:** Press and hold the power button for approximately 2 seconds until you hear a beep. The LCD screen will illuminate.
- **To Power Off:** Press and hold the power button for approximately 2 seconds until the UPS powers down.

6.2 Understanding the LCD Display

The LCD screen provides critical operational information. Use the 'TEST' button to cycle through display modes and the 'MUTE' button to silence alarms or select options.

Easy-to-Read LCD

Displays UPS modes and operating conditions

Self-Test
Button

Mute/Select
Button



Figure 6.1: OMNI1500LCDT LCD display showing current status.

On-Line AC and Power Mode Data

Reports detailed voltage, runtime, load and battery information

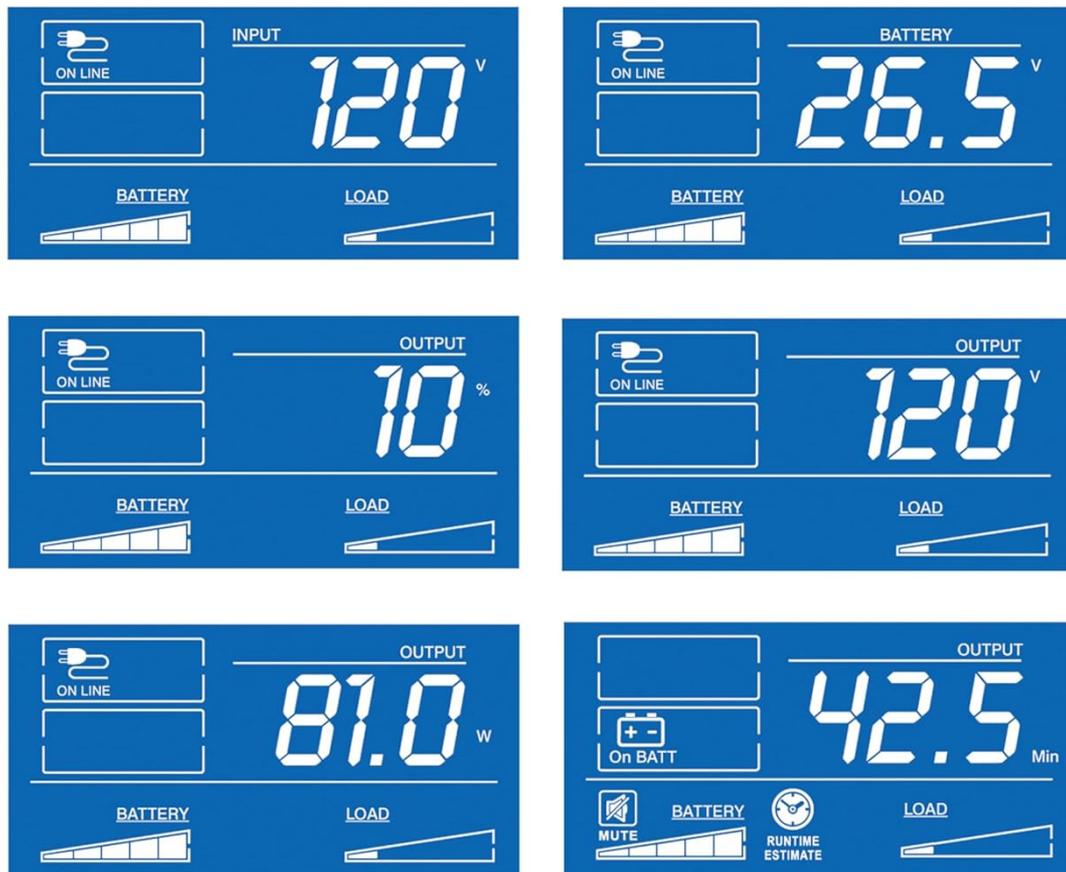


Figure 6.2: Examples of information displayed on the LCD screen.

6.3 Automatic Voltage Regulation (AVR)

The UPS automatically detects and corrects minor voltage fluctuations (brownouts and overvoltages) without switching to battery power. This extends battery life and provides stable power to your devices.

6.4 Battery Backup Function

During a power outage, the UPS will automatically switch to battery power, providing continuous power to connected equipment on the battery backup outlets. An audible alarm will sound, and the LCD will indicate 'On Batt'. The duration of battery backup depends on the load connected.

7. MAINTENANCE

7.1 Battery Replacement

The OMNI1500LCDT uses two user-replaceable Tripp Lite RBC51 batteries. Batteries typically last 3-5 years under normal conditions. Replace batteries when the UPS indicates a battery fault or when runtime significantly decreases.

1. Power off the UPS and disconnect it from the wall outlet.

2. Refer to the detailed battery replacement instructions provided with the replacement battery kit or on the Tripp Lite website.
3. Dispose of old batteries according to local regulations.

Recyclable Batteries Are Field Replaceable and Hot Swappable



Requires two RBC51 replacement batteries (sold separately).

Figure 7.1: Tripp Lite RBC51 replacement batteries.

7.2 Cleaning

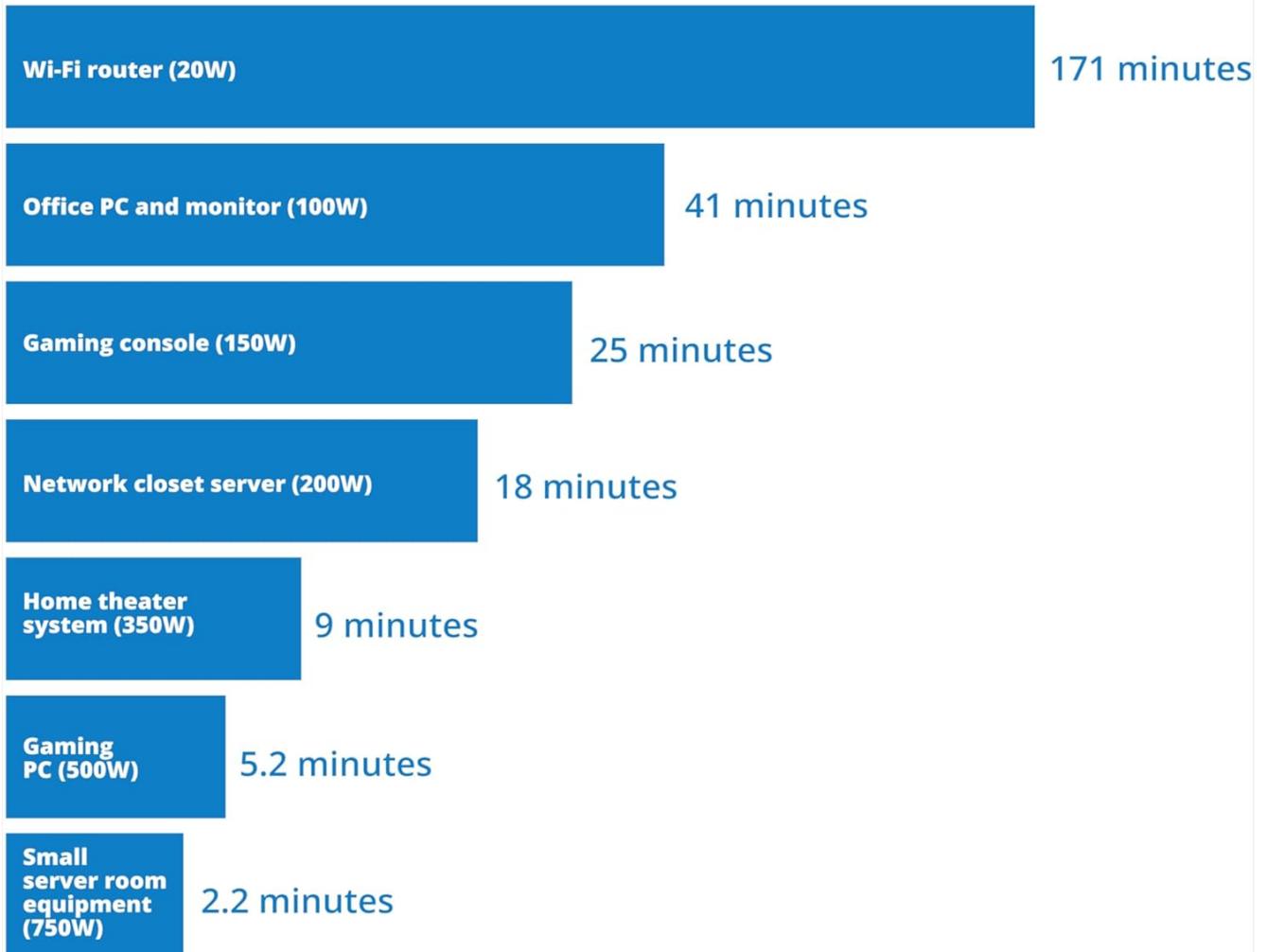
Periodically clean the exterior of the UPS with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and debris.

7.3 Runtime Expectations

The battery runtime varies significantly based on the connected load. The following chart provides estimated runtimes for common devices:

Runtime Examples

Model: OMNI1500LCDT



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

Figure 7.2: Estimated runtime examples for OMNI1500LCDT.

8. TROUBLESHOOTING

If you encounter issues with your OMNI1500LCDT UPS, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
UPS does not turn on.	Not connected to AC power; Battery not connected or discharged.	Ensure UPS is plugged into a live, grounded outlet. Allow 24 hours for initial battery charge. Check battery connections.
UPS beeps continuously.	Overload condition; Battery low or faulty.	Reduce connected load. Check LCD for battery status; replace battery if necessary.
Short battery runtime.	Overload; Battery nearing end of life.	Reduce connected load. Replace battery (Tripp Lite RBC51).

Problem	Possible Cause	Solution
No power to outlets.	UPS off; Circuit breaker tripped.	Turn on UPS. Check and reset the circuit breaker on the rear panel.

For further assistance, contact Tripp Lite technical support.

9. SPECIFICATIONS

Detailed specifications for the OMNI1500LCDT UPS:

- **Model:** OMNI1500LCDT
- **Capacity:** 1500VA / 810W
- **Input Voltage:** 120V AC
- **Output Voltage:** 120V AC
- **Outlets:** 10 (5 Battery Backup/Surge, 5 Surge Only)
- **Surge Protection:** 650 Joules
- **Automatic Voltage Regulation (AVR):** Corrects brownouts and overvoltages between 92V and 150V
- **Battery Type:** Sealed Lead Acid (2 x 12V, user-replaceable RBC51)
- **Recharge Time:** 4-6 hours to 90% after full discharge
- **Communication Ports:** USB, RJ45 (Ethernet), RJ11 (Telephone/DSL)
- **Dimensions (H x W x D):** 8 x 5.75 x 15.6 inches (203 x 146 x 396 mm)
- **Weight:** 24.6 lbs (11.16 kg)
- **Operating Temperature:** 32°F to 104°F (0°C to 40°C)

Compact Tower UPS Protects Your Desktop Computer and Office Accessories

Model: OMNI1500LCDT



Figure 9.1: OMNI1500LCDT UPS dimensions.

10. WARRANTY AND SUPPORT

10.1 Product Warranty

The Eaton Tripp Lite OMNI1500LCDT UPS is protected by a **3-Year Limited Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

10.2 Connected Equipment Insurance

This product includes a **\$250,000 Ultimate Connected Equipment Insurance** policy. This policy provides coverage for equipment damaged by power surges while properly connected to the UPS. Refer to the warranty documentation included with your product for full terms and conditions.

10.3 Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Eaton's expert technical team. Support is available via phone, web, or email. Visit the official Tripp Lite by Eaton website for contact information

and additional resources.