

Eaton 5PX3000RT2U

Eaton 5PX 3000 2U Rack/Tower LCD UPS User Manual

Model: 5PX3000RT2U

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Eaton 5PX 3000 2U Rack/Tower LCD Uninterruptible Power Supply (UPS). The Eaton 5PX 3000 is designed to provide reliable power protection for servers, storage, and network equipment. Please read this manual thoroughly before installation and operation.

SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the UPS or connected equipment:

- **Electrical Safety:** This unit contains hazardous voltages. Do not open the UPS enclosure. Servicing should only be performed by qualified personnel.
- **Battery Safety:** Batteries can present a risk of electrical shock and high short-circuit current. Remove watches, rings, or other metal objects before handling batteries. Use tools with insulated handles.
- **Installation Environment:** Install the UPS in a controlled environment, free from excessive dust, moisture, and extreme temperatures. Ensure adequate ventilation.
- **Grounding:** Always connect the UPS to a grounded power outlet.
- **Weight:** The UPS is heavy. Use proper lifting techniques or assistance during installation to avoid injury.

PACKAGE CONTENTS

Verify that all items are present in the packaging:

- Eaton 5PX 3000 2U Rack/Tower LCD UPS Unit

- Rack mounting kit (rails, screws)
- Tower stand kit
- USB cable
- Serial cable
- Input power cord
- Output power cords
- Quick Start Guide and Safety Instructions

SETUP

1. Physical Installation

The Eaton 5PX 3000 can be installed in a standard 19-inch rack or as a tower unit.

Rack Installation:

1. Attach the rack mounting rails to the rack using the provided hardware.
2. Carefully slide the UPS unit onto the installed rails until it is fully seated.
3. Secure the front of the UPS to the rack using the provided screws.

Tower Installation:

1. Attach the tower stands to the bottom of the UPS unit.
2. Place the UPS on a stable, level surface, ensuring adequate clearance for ventilation.

2. Connecting Power

Connect the UPS to a dedicated, grounded electrical outlet using the supplied input power cord. Ensure the outlet matches the UPS voltage requirements (120V).

3. Connecting Equipment

Connect your critical equipment (servers, network devices) to the output receptacles on the rear of the UPS. The UPS features 7 outlets with various connector types (L5-30P, 5-20R, L5-30R). Distribute the load evenly across the outlets if possible.



Image: Front view of the Eaton 5PX 3000 2U Rack/Tower LCD UPS, showing the LCD display and front panel controls.

4. Initial Power-On

1. After connecting all equipment and the input power, press and hold the power button on the front panel for a few seconds until the LCD display illuminates.
2. The UPS will perform a self-test and then display its operational status.
3. Allow the UPS batteries to charge for at least 24 hours before relying on them for extended backup power.

OPERATING

LCD Display Overview

The front panel LCD provides real-time information about the UPS status, battery charge, load level, and various settings. Use the navigation buttons to scroll through menus and adjust parameters.

Basic Functions

- **Power On/Off:** Press and hold the power button to turn the UPS on or off.

- **Mute Alarm:** Briefly press any button to silence an active alarm.
- **Self-Test:** Initiate a battery self-test through the LCD menu to check battery health.

Battery Management

The UPS automatically manages battery charging and discharge. For optimal battery life, avoid frequent deep discharges. The LCD will indicate battery charge level and estimated runtime.

Software Integration

The Eaton 5PX 3000 supports communication with computers and network management systems via USB or serial ports. Install Eaton's power management software (available from the Eaton website) for advanced monitoring, graceful shutdown of connected devices, and remote management capabilities.

MAINTENANCE

Battery Replacement

The batteries in your UPS are user-replaceable. The typical lifespan of UPS batteries is 3-5 years, depending on usage and environmental conditions. The UPS LCD or management software will indicate when battery replacement is recommended. Always use genuine Eaton replacement battery modules to ensure compatibility and performance. Refer to the detailed battery replacement instructions in the full product manual or on the Eaton support website.

Cleaning

Periodically clean the exterior of the UPS with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to maintain proper airflow and cooling.

Firmware Updates

Eaton may release firmware updates to improve performance or add features. Check the Eaton support website periodically for available updates and follow the provided instructions for installation.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Eaton 5PX 3000 UPS.

Problem	Possible Cause	Solution
UPS does not turn on	No input power; Battery not connected or discharged	Check power cord connection and wall outlet. Ensure internal battery connectors are secure. Allow batteries to charge.
UPS beeps continuously	On battery power; Overload; Battery fault	Check input power. Reduce connected load. Perform a battery self-test or consider battery replacement.
Short runtime on battery	Overload; Old batteries; Batteries not fully charged	Reduce connected load. Replace batteries if they are old. Allow batteries to charge for 24 hours.

Problem	Possible Cause	Solution
LCD shows an error code	Internal fault; Specific issue	Refer to the full user manual for a list of error codes and their corresponding solutions. Contact technical support if the issue persists.

SPECIFICATIONS

Key technical specifications for the Eaton 5PX 3000 2U Rack/Tower LCD UPS (Model: 5PX3000RT2U):

- **Brand:** Eaton
- **Model Number:** 5PX3000RT2U
- **Form Factor:** Rack/Tower (2U)
- **Wattage:** 3000 Watts
- **Maximum Power:** 2700 Watts
- **Output Wattage:** 2430 Watts
- **Voltage:** 120 Volts
- **Input Voltage:** 120 Volts (AC)
- **Output Voltage:** 120 Volts (AC)
- **Output Current:** 20.25 Amps
- **Frequency Range:** 47-53 Hz and 56.5-63.5 Hz
- **Number of Outlets:** 7
- **Connector Type:** L5-30P, 5-20R, L5-30R
- **Power Plug Type:** Type B - 3 pin (North American)
- **Battery Cell Composition:** Lead Acid
- **Runtime (typical):** 20 minutes (at half load)
- **Enclosure Material:** Alloy Steel
- **Color:** Black
- **Item Weight:** 0.01 Pounds (Note: This weight is likely incorrect in the source data and should be verified with actual product specifications)

WARRANTY AND SUPPORT

Warranty Information

Eaton provides a standard warranty for the 5PX 3000 UPS. The specific terms and duration of the warranty may vary by region and purchase date. Please refer to the warranty card included with your product or visit the official Eaton website for detailed warranty information and registration.

Technical Support

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Eaton customer support. Support contact information can be found on the official Eaton website or in the documentation provided with your UPS.

