

Chapter 1 Introduction

1.1 Intended Use

Eaton Retrofit Bypass Cabinets (250A) are designed as an extension to installed Reactor Power Panels (RPPs). A Retrofit Bypass Cabinet allows input power to be switched between the main RPP power source and a reserve power source so that the RPP can be taken off line without interrupting power to the load.

Reactor Power Panels (RPPs) make maintenance of downstream equipment safer by limiting fault current and reducing the risk of arc flash. A reserve power source for the Bypass temporarily provides the same safety benefits as the dedicated RPP while the RPP is off line for maintenance.

Eaton Retrofit Bypass Cabinets are available for installed Eaton (PDI) and Vertiv RPPs. This manual describes installation and operation of Retrofit Bypass Cabinets for Eaton (PDI) RPPs. A separate manual (Number P-164001120) describes installation and operation of the Retrofit Bypass Cabinet for Vertiv RPPs.

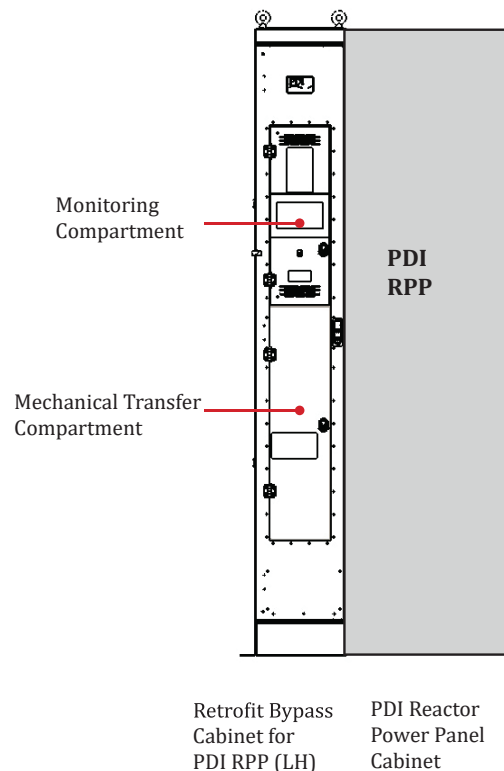
1.2 Description

A Retrofit Bypass Cabinet is a 12"-wide cabinet that provides a bypass function for Eaton (PDI) 250A RPPs. The Retrofit Bypass Cabinet has mechanically interlocking switches to transfer power between main RPP power and reserve power. The Retrofit Bypass Cabinet can be manufactured for left-hand (LH) or right-hand (RH) orientation for installation on the left or right side of an RPP.

Customer's installers must prepare the Retrofit Bypass Cabinet and RPP for installation on-site, wire the power cabling between the Bypass Cabinet and RPP, and connect external reserve power and load (busway) cables.

Customer is also responsible for setting up monitoring in the Retrofit Bypass Cabinet.

Figure 1. Retrofit Bypass Cabinet (250A) with Eaton PDI Reactor Power Panel - Left Hand Configuration



1.3 Using This Manual

Read this manual thoroughly and make sure you understand the procedures before you attempt to install, set up, operate or carry out any maintenance work on this Eaton product.

Read through each procedure before beginning the procedure. Perform only those procedures that apply to the unit being installed or operated.

1.4 Conventions Used in This Manual

This manual uses these type conventions:



NOTE

Some conventions only apply to display screens (if installed).

- **Bold type** highlights important concepts in discussions, key terms in procedures, and menu options, or represents a command or option that you type or enter at a prompt.
- *Italic type* highlights notes and new terms where they are defined.
- `Screen type` represents information that appears on the screen or LCD.

Icon	Description
	Information notes call attention to important features or instructions.
[Keys]	Brackets are used when referring to a specific key, such as [Enter] or [Ctrl].

1.5 Symbols, Controls, and Indicators

The following are examples of symbols used on the UPS or accessories to alert you to important information:



RISK OF ELECTRIC SHOCK - Observe the warning associated with the risk of electric shock symbol.



CAUTION: REFER TO OPERATOR'S MANUAL - Refer to your operator's manual for additional information, such as important operating and maintenance instructions.



This symbol indicates that you should not discard the UPS or the UPS batteries in the trash. This product contains sealed, lead-acid batteries and must be disposed of properly. For more information, contact your local recycling/reuse or hazardous waste center.



This symbol indicates that you should not discard waste electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling/reuse or hazardous waste center.

1.6 Getting Help

**NOTE**

References to PDI (Power Distribution, Inc.) may appear in this manual. Service, warranties and support for these components are obtained from Eaton.

If help is needed with any of the following:

- Scheduling initial startup
- Regional locations and telephone numbers
- A question about any of the information in this manual
- A question this manual does not answer

Please call the Eaton Help Desk at:

United States: **1-800-843-9433** or **1-919-870-3028**

Canada: **1-800-461-9166 ext 260**

All other countries: **Call your local service representative**

Please use the following e-mail for manual comments, suggestions, or to report a technical error in this manual.

E-ESSDocumentation@eaton.com

1.7 Warranty

To view the warranty please click on the link or copy the address to download from the Eaton website:

[Eaton Product Warranty](#)

<https://www.eaton.com/content/dam/eaton/products/backup-power-ups-surge-it-power-distribution/backup-power-ups/portfolio/eaton-three-phase-ups-warranty.pdf>

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