Chapter 1 Introduction

1.1 Intended Use

The Reactor Power Panel V2 (RPP V2) (250A) is designed to make maintenance of downstream equipment safer by limiting fault current and reducing the risk of arc flash in downstream equipment.

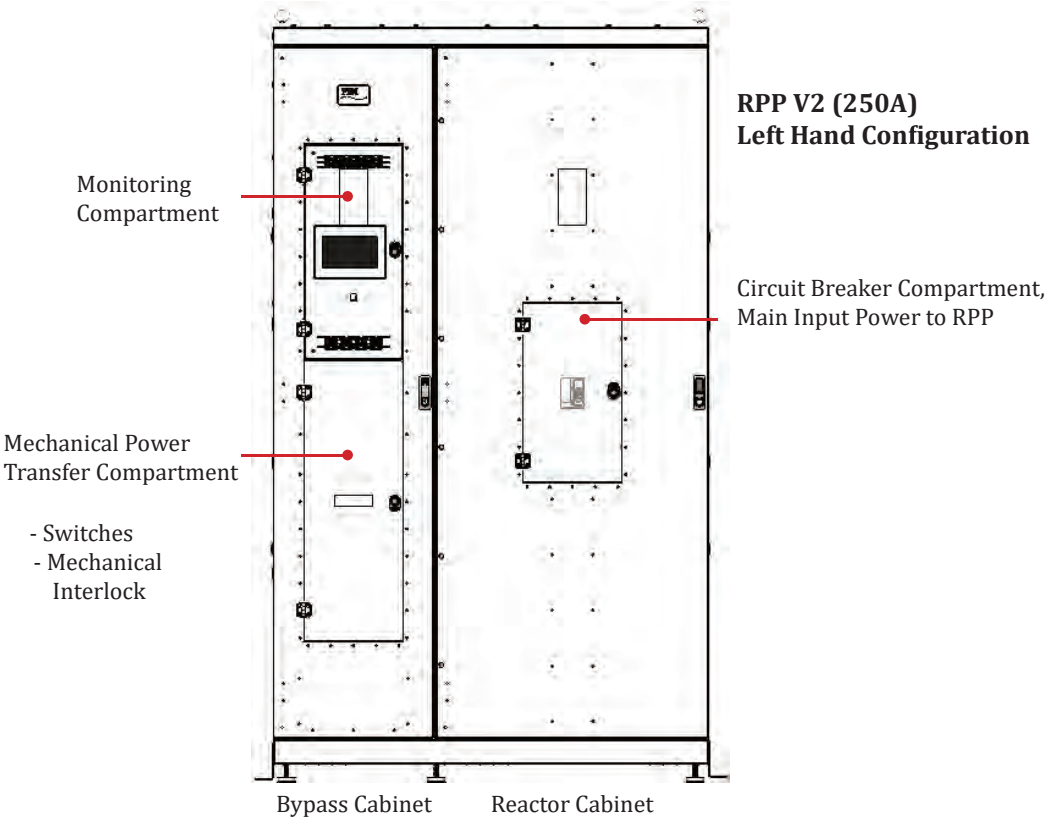
1.2 Description

The Reactor Power Panel V2 (RPP V2) contains a 250A Reactor Cabinet and an associated Bypass Cabinet. The two cabinets are bolted together for installation as a single unit. All power wiring between the Reactor and Bypass Cabinets is done in manufacturing.

When provided with a suitable reserve power source, the Bypass allows the reactor itself to be taken off line for maintenance without interrupting power to the load. The Bypass Cabinet has mechanically interlocked switches to transfer power between the RPP V2 power and reserve power. The

RPP V2 can be configured in manufacturing for left-hand (LH) or right-hand (RH) orientation, which determines whether the Bypass Cabinet is located on the LH or RH side.

Figure 1. RPP V2 (250A) Left Hand Configuration



1.3 Environmental Information

1.3.1 Operating Conditions

The RPP V2 can be operated within the following environmental conditions:

- Standard ambient operating temperature: 25°C (77°F).
- Ambient operating temperature range: 0ºC to 40ºC (32ºF to 104ºF)
- Relative humidity range: 0% to 95% non-condensing.
- Maximum altitude 3,300 ft. For operation above 3,300 ft., please contact the factory before ordering.

Maximum noise generation of the RPP V2 is 42 dBA.

1.3.2 Storage Conditions

If the RPP V2 is not to be immediately installed and energized, it should be carefully stored in a warm, dry environment, preferably a heated building with air circulation and a uniform temperature to prevent condensation. The RPP V2 should be stored in its factory protective coverings.

Storage temperature range must be within these extremes: -30ºC to +70ºC (-22ºF to 158ºF).

It is especially important that the reactor be free of condensation and protected from contamination. If the RPP V2 has been exposed to moisture, it should be dried out before being energized. Consult Eaton Service if the unit has been exposed to moisture or contamination.

1.4 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.

1.5 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].

1.6 Symbols, Controls, and Indicators

The following are examples of symbols used on the RPP 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.

1.7 Getting Help

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

1.8 Warranty and End User License Agreement

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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