



Ovation® Interim Publication Update

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PUBLICATION TITLE

Planning and Installing Your
Ovation System (For FDDI)
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This publication update contains the following additions and changes:

- Updated information on Determining Electrical Requirements for Ovation I/O Cabinets (Section 2-4.2).
- Revised information in Figure 8-1, Figure 8-7, Figure 8-8, Figure 8-9, and Figure 8-10.
- New information on Power Supply Features (Section 8-4.1).
- New information on Available Power Supply Modules (Section 8-4.2).

Replace the following information (shown in large bold) in Section 2-4.2

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2-4.2. Determining Electrical Requirements for Ovation I/O Cabinets (drawn from AC or DC Mains power)

All Ovation I/O cabinet styles have the following voltage and frequency specifications:

- Input voltages: 85 - 264 VAC (Line-Neutral configuration only)
90 - 250 VDC (DC input is not supported for CE Mark)
- Input frequency: 47 - 63 Hz

Table Table 2-10. lists the power a component draws from the cabinet's AC or DC Mains power supply when the component is installed within the cabinet. Refer to Section 2-4.3 for instructions on using these values to calculate power requirements for populated Ovation I/O cabinets.

Do NOT use Table Table 2-10. to determine the power drawn from the +24V Main or Auxiliary Power Supply. Refer to Section 8-4.4 instead.



Caution

Access to the inside of an Ovation cabinet should be limited to qualified trained personnel.

Table 2-10. Electrical Specifications for Ovation ¹ I/O Cabinet Components (power supply efficiency is included)

Component	Westinghouse Part Number	Main +24 Power (W) and VA (Typical)	Aux Power (W) and VA ² (Typical)	Main Heat Dissipation	AUX Heat Dissipation	CE Mark Avail
Controller Cabinet (cabinet + power supply fans)	Not Applicable	24 W/VA	Not Applicable	82 BTUs/hr	Not Applicable	No
Marshalling Cabinet (cabinet + power supply fans)	Not Applicable	24 W/VA	Not Applicable	82 BTUs/hr	Not Applicable	No

Replace the following figures with the new figures shown on the following pages of this IPU:

- Figure 8-1 (page 8-4).
- Figure 8-7 (page 8-8).
- Figure 8-8 (page 8-9).
- Figure 8-9 (page 8-10).
- Figure 8-10 (page 8-11).

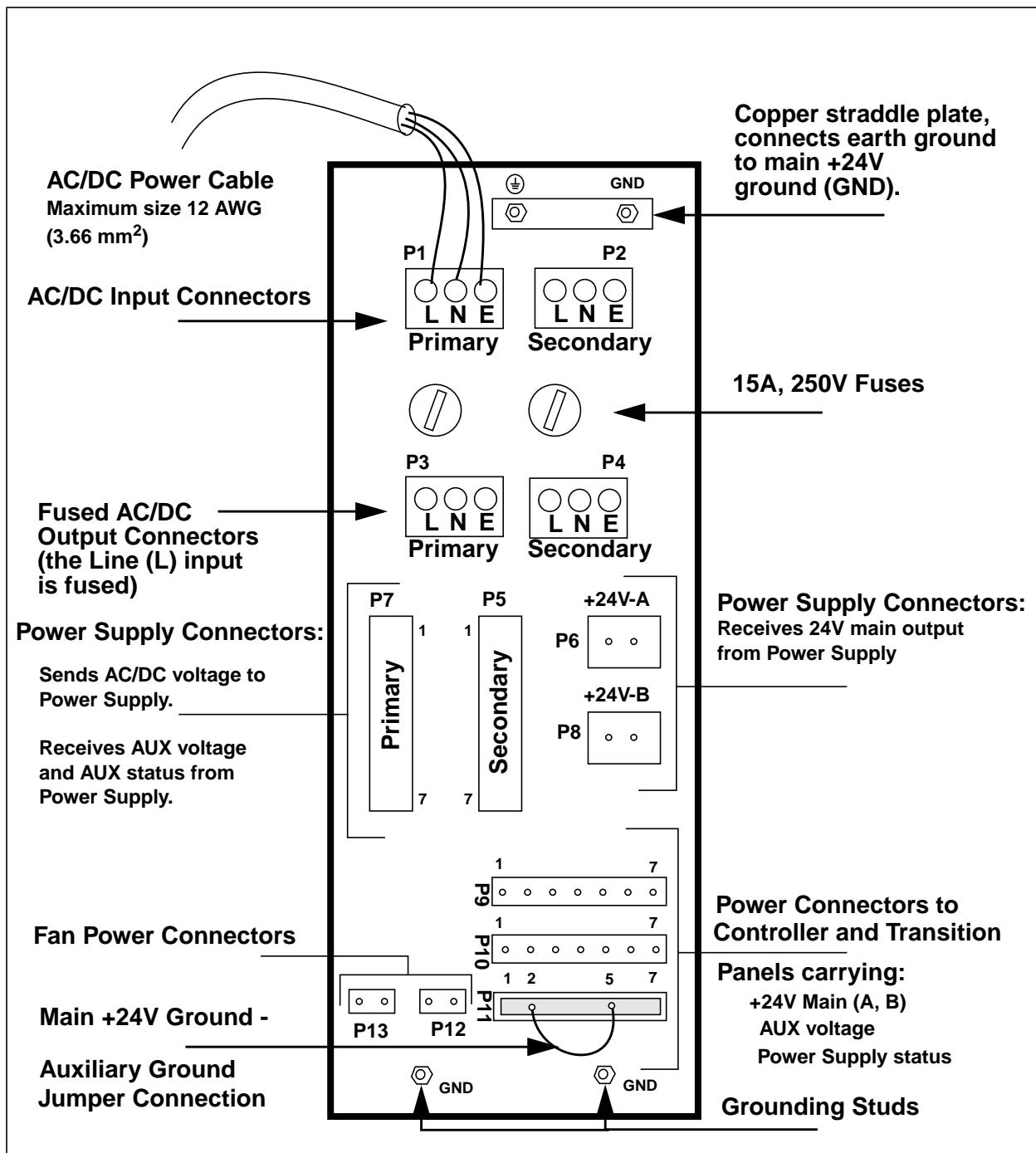


Figure 8-1. Ovation Power Distribution Module (PDM)

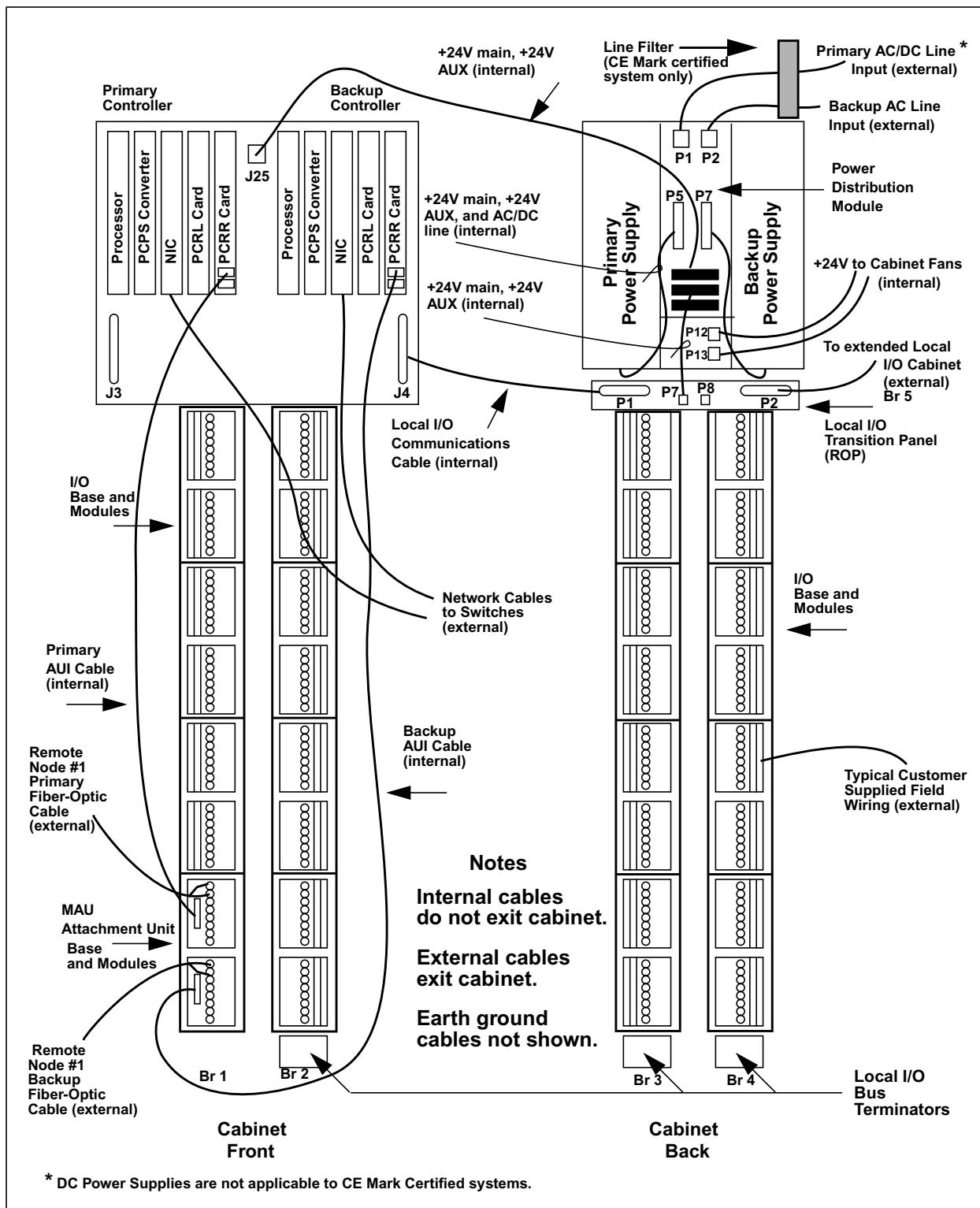


Figure 8-7. Ovation Controller/Marshalling Cabinet (with local and remote cabling)

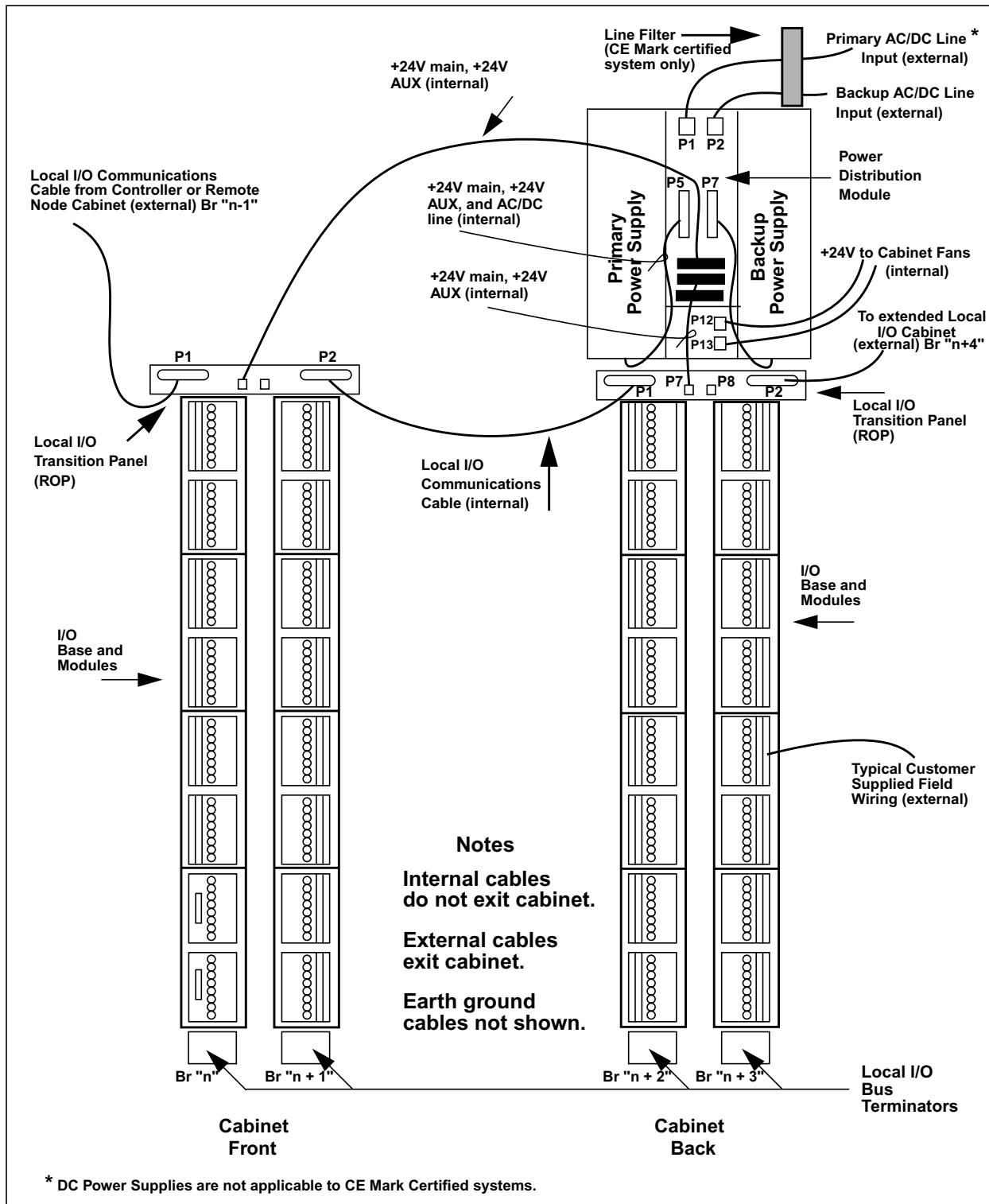


Figure 8-8. Ovation Extended I/O Cabinet (illustrating cables and Standard I/O)

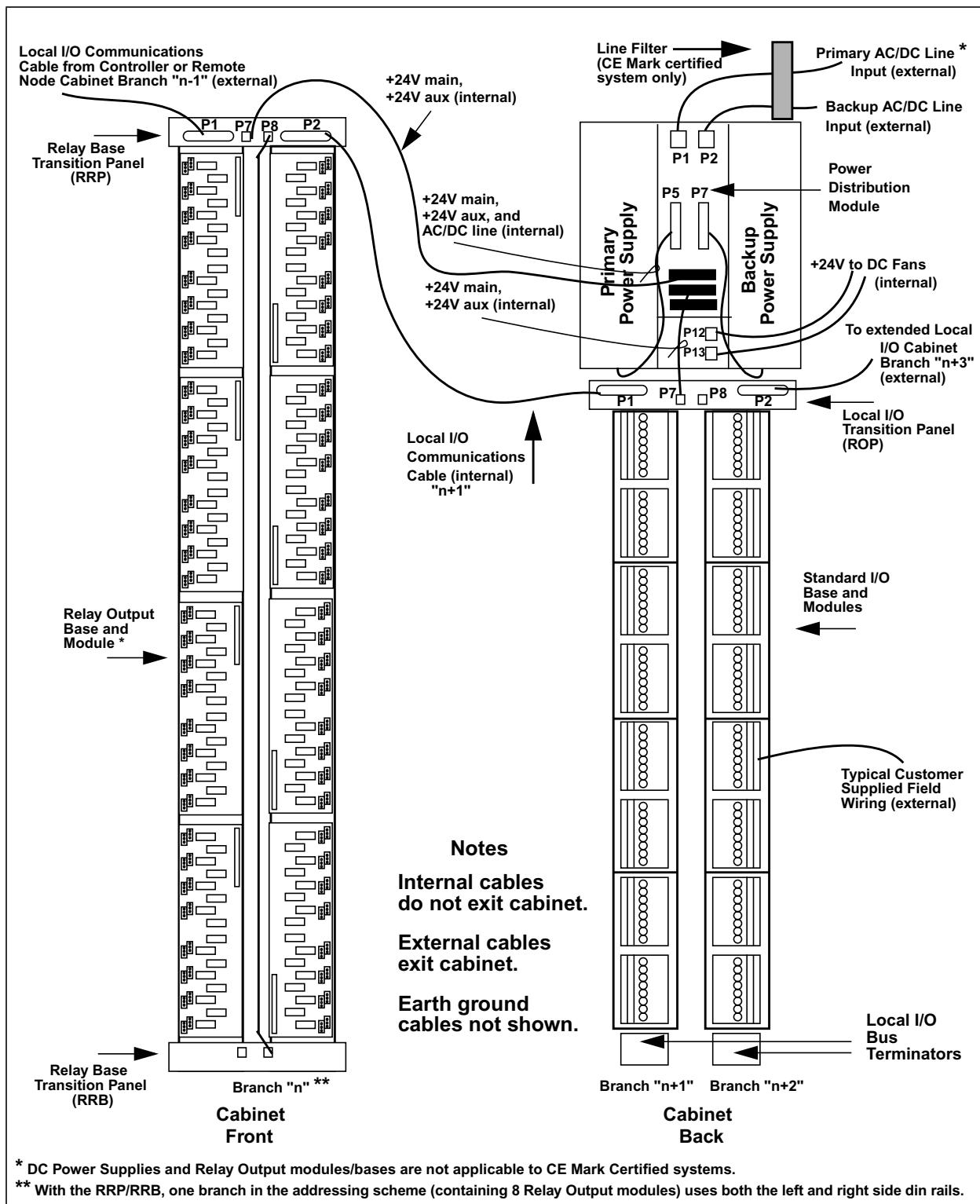


Figure 8-9. Ovation Extended I/O Cabinet (illustrating cables and Relay Output modules)

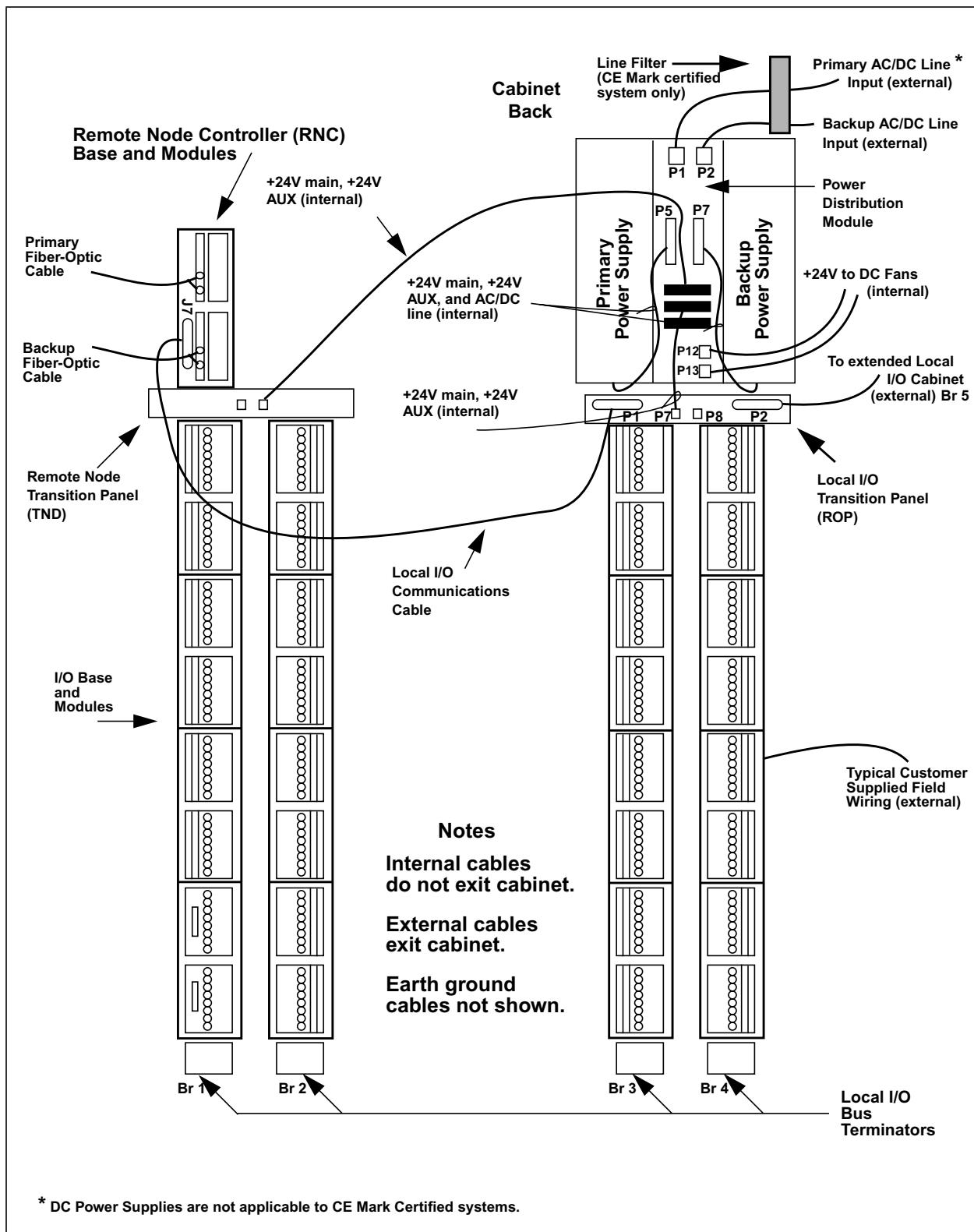


Figure 8-10. Ovation Remote Node Cabinet (illustrating cables)

Replace the following information (shown in large bold) in Section 8-4.1:

Pages 8-16

8-4.1. Power Supply Features

Ovation power supplies provide the following features:

- Wide range inputs.
 - 85 - 264 VAC
 - 90 - **250** VDC
- Main power supply and auxiliary power supply can be contained in the same module.
- 24 VDC Main and 24/48 VDC auxiliary outputs.
 - Power factor corrected
 - Hot swap capability (on-line replacement in redundant configurations)
 - 32 mS hold-up time
- LEDs on the front panel indicate conditions of input/output voltages (see Figure 8-13).

Replace the following information (shown in large bold) in Section 8-4.2.

Pages 8-18

8-4.2. Available Power Supply Modules

There are Ovation power supply modules available for AC or DC input voltage.

- AC module 1X00024H01, H03 (see Table 8-1).
 - Uses 115/230 VAC input voltage (85 to 264 V rms).
 - Input frequency range 47 to 63 Hz.
- DC module 1X00024H04, H06 (see Table 8-2).
 - Uses 90 to **250** VDC input voltage.

There are two types of power supply modules available (for AC or DC input):

- Auxiliary power supplies that provide power only to field items (such as analog input current loops and relay coils).
- Main and auxiliary power supplies, combined into one module, that supply power to the Controller, I/O modules, and field items.

Table 8-1. AC Power Supply Modules (1X00024H01, H03)

Module ^{1, 2}	Output	Description
1X00024H01	300 Watt - 24 Volt 200 Watt - 24 Volt ³	Dual output - Single main Single auxiliary
1X00024H03	200 Watt - 48 Volt ³	Single auxiliary output - No main

¹ 1X00024H01 supersedes 4D33900G13 and 4D33900G19 for new applications and replacements.
1X00024H03 supersedes 4D33900G15 for new applications and replacements.

² 1X00024H01, H03 are UL1950 recognized components (File #E150340) and may be used in Ovation CE Mark Systems.

³ The auxiliary output has an isolation diode placed in series with the internal power supply auxiliary output voltage.