

Connecting Proportional Models for Positive or Negative Outputs

This Application Note describes how to connect proportional models for either **positive** or **negative** output as applicable to these floating and isolated XP EMCO models:

- E Series
- F Series
- FS Series, 200V to 4KV models
- G Series
- GP Series
- L Series
- Q Series, 100V to 900V models

Safety Warning

High voltage power supplies present a serious risk of personal injury if not used in accordance with design and/or use specifications, if used in applications on products for which they are not intended or designed, or if they are used by untrained or unqualified personnel. For more information, please refer to the XP EMCO Safety Warning and Disclaimer located at:

<http://www.xppower.com/High-Voltage/Safety-Warning-Concern-HV.pdf>

For positive output: connect (-) output to (-) input (see Figure 1).

- (-) Input (or ground)
- (+) Input
- **(+) Output (positive output)**
- (-) Output (or High Voltage return) can be connected to (-) input for a common ground

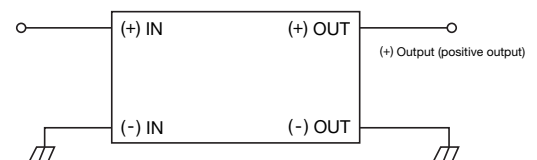


Figure 1: Positive High Voltage Output

For negative output: connect (+) output to (-) input (see Figure 2).

- (-) Input (or ground)
- (+) Input
- (+) Output (or high voltage return) can be connected to (-) input for a common ground
- **(-) Output (negative output)**

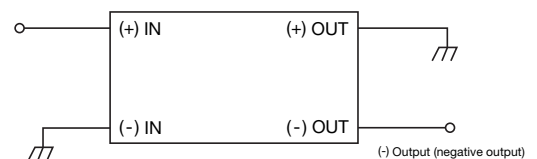


Figure 2: Negative High Voltage Output

Online Tutorials

Please see our tutorial on Connecting Proportional Models for Positive or Negative Outputs at:

<http://www.xppower.com/Applications/High-Voltage-power-supplies>