

# — APPLICATION NOTE

## 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 Power models:

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

## 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 Power Safety Warning and Disclaimer at the end of this document.

**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

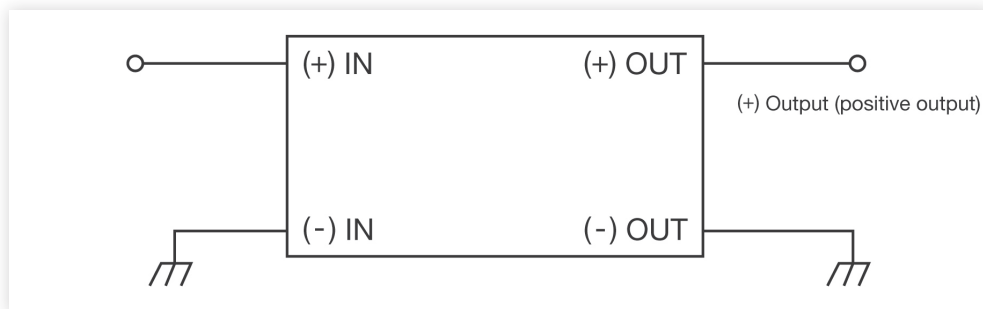


Figure 1: Positive High Voltage Output

**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)

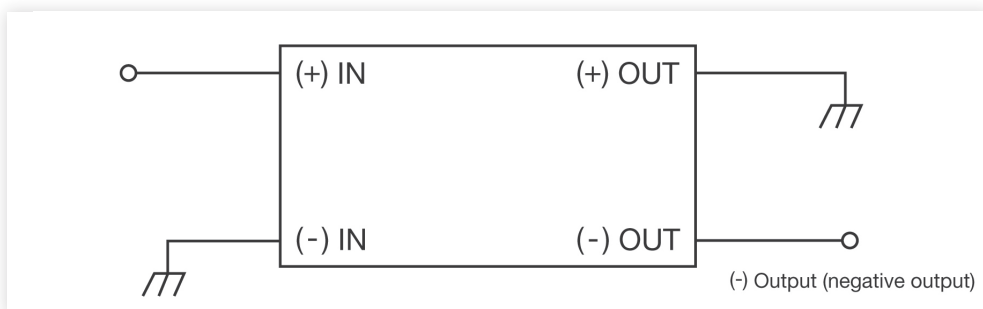


Figure 2: Negative High Voltage Output

## 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>

### Safety Information

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. Before testing, incorporating or using XP Power's products, read, understand and thereafter adhere to all instructions, protocol, cautions and safety procedures applicable not only to XP Power's products but to each product and/or application into which XP Power's products are incorporated or assembled, as well as industry standard safe practices and rules and regulations regarding the use of high voltage.