



High Voltage Module, HVPS3

Introduction

The High Voltage Module, HVPS3 is an integrated high voltage power supply featuring a high voltage isolated output capable of producing and adjustable output voltage of 2kV to 10kV with an output current up to 5mA maximum. They require a 180VAC to 220VAC input voltage at 50/60Hz.

Typical Applications:

- Capacitor charging
- Marx generators
- Jacob's ladders
- General high voltage applications

Electrical Specifications

The following table summarizes the electrical specifications of the power supply:

Specifications	
Input Voltage Range	180VAC to 220VAC 50/60Hz
Input Current	TBD
Output Voltage Range	2kV to 10kV Adjustable via potentiometer
Max. Output Power	50 W (5mA @ 10kV)

Short Circuit Operation

We do not recommend operating these units into a short circuit. We recommend using current limiting resistors to limit the charge current to less than 1mA.

PIN-OUT

This diagram shows the pin out of the device.

Pin	Function
Small gauge red wire 1 Potentiometer side of unit	Input AC 1
Small gauge red wire 2 Potentiometer side of unit	Input AC 2
High Voltage Red Wire	HV Output +
High Voltage White Wire	HV Output -

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 which they are not intended or designed, or if they are used by untrained or unqualified personnel. These high voltage power supplies should only be operated by trained and experience professionals and never by anyone under the age of 18. We reserve the right to refuse sale of these high voltage modules to anyone.

ENERGY STORAGE WARNING

These devices have internal energy storage capacitors at the output. Be sure to properly discharge the output of these devices by shorting them together prior to handling as they will continue to hold a charge after power is removed from the input.