

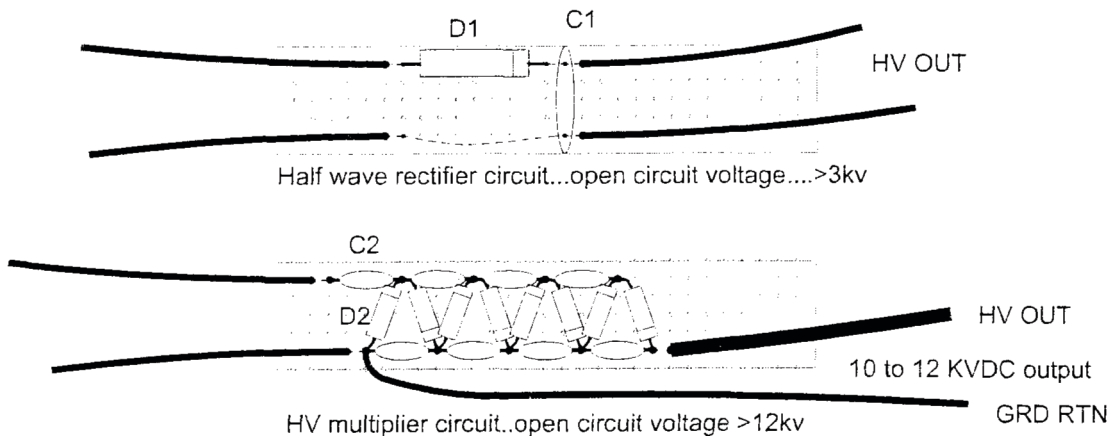
MINIMAX3/NEONUL INSTRUCTIONS



This universal high voltage power supply was originally designed for neon displays in our laboratories. It is UL approved and virtually indestructible. It is open circuit and short circuit protected. Open circuit output voltage is over 3000 at a frequency of 30 Khz. Short circuit current is >15 ma. Unit load lines at 2000 vac delivering 10 ma. with 12 vdc input. Applications include powering gas discharge tubes up to eight feet, plasma generation for burning and etching, output is easily converted to high voltage dc up to 25 kv and can be used for capacitor charging and a host of high voltage experiments. Always allow to operate for an hour or so and check for heat. Unit never should be uncomfortably hot to touch.

Use a 12 volt 1 amp dc adapter for full output or a 12 volt .5 amp for $\frac{1}{2}$ output. You may use a 12 volt 1.5 amp for increased output intermittently for experimental and laboratory use.

Optional high voltage dc multiplier circuits easily used with this power supply



WR1 24" #20 Hook up wire

PB1 1 X 4" .1 Grid perfbord

Note 4 stages shown can produce 10 to12 KV!!

C1 .01mfd 2kv disk capacitor.....#.01M2KV

D1 6KV .1 usec diode.....#VG6

C2 270 pfd 3kv disk capacitors...#270 /3KV