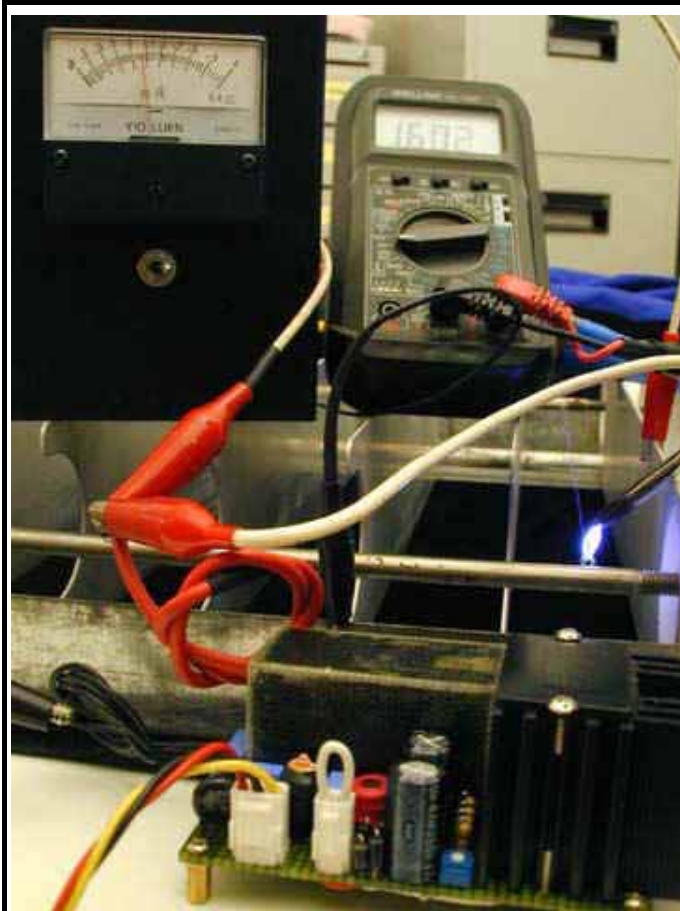
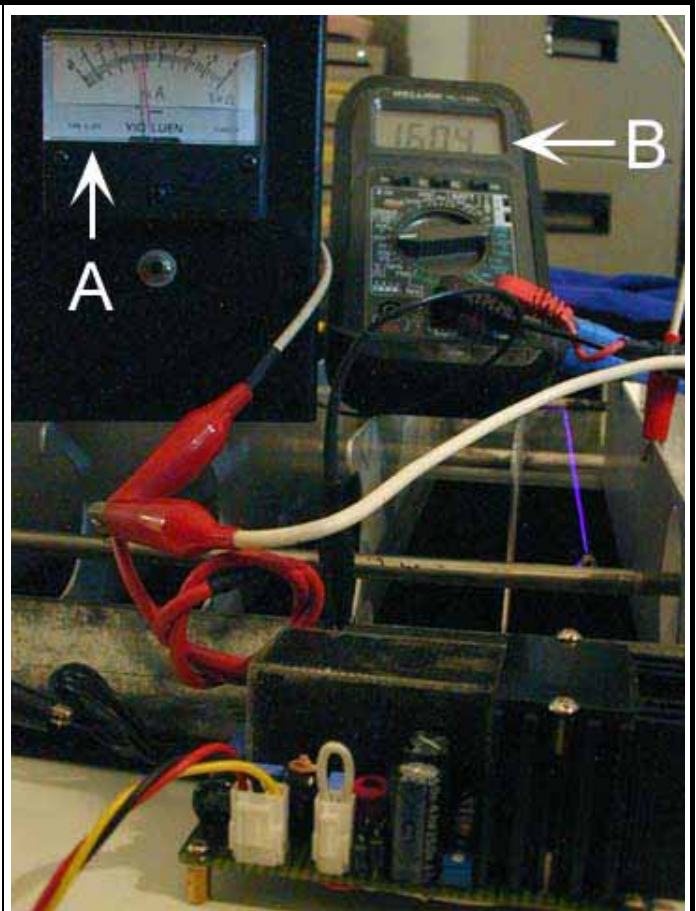


ION16KV25W 110V/220Vac 25W 16KV Ion Power Supply



16KV, spark condition

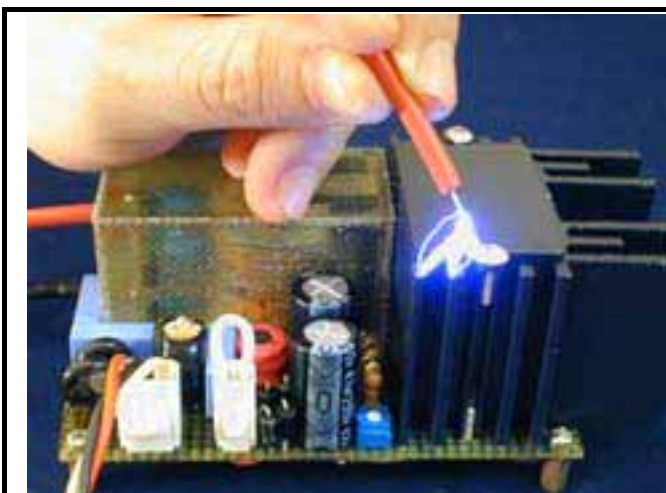


16KV, Corona on the ionic discharge line

A: Ampere Meter: Full Gauge = 1mA

B: Voltmeter:

the value on the voltmeter x 10 = output HV



The control & driving circuits are epoxy encapsulated in aluminum heat-sink, not destroyed by spark.



It will not affect the circuits when HV output sparks to 2 wires of AC input power source.

Specifications

Input Voltage	95 to 125VAC or 200 to 250VAC (selectable by switch)
Input Power	25W max. (need good heat-dissipation) 12W normal (continuous operation)
Output Voltage	8KV to 18KV adjustable Positive or Negative output available
Output Power	22W max. (conversion efficiency > 85%) 8.5W normal (conversion efficiency > 65%)
Conversion Efficiency	30% to 90% (the higher input power, the higher efficiency)
Output Impedance	No impedance, output directly from high voltage capacitor. (If sparks happen, output voltage and input current drop.)
Operating Frequency	16KHz to 22KHz
Mode of Oscillation	Self-driving
Operating Temp.	-15°C to 60°C (surface temp.) (Affect output voltage less than $\pm 200V$)
Voltage Regulation Type	Amplitude feedback detection (Under fixed load condition, the voltage changes less than $\pm 200V$ after adjustment.)
Circuit Protection Function	Short-circuit protection (when short: current less than 4W) (when release short, it will recover normal immediately)
	Open-circuit protection (when open: current less than 7W) (when open, the output voltage will be 15% higher than the default value.) (Note: should not be higher than 19KV)
	Spark-protection (sparks do not affect the circuits.)
	Spark into power source protection: It will not affect the circuits when HV output sparks to 2 wires of AC input power source.
HV Rectifier Type	full-wave voltage doubler circuit
Dimensions	12.2cm (L) x 5.9cm (W) x 4.8cm (H)
Weight	Less than 340g