



High Voltage Power Supply For electrostatic air filters

- Output set at 7kV
- 24VAC operation
- Red LED on pilot light
- Positive or negative polarity available

The A-7 power supply is designed especially providing the high voltage to be used in an electrostatic air filter system. Providing 7kV of high voltage at limited current is ideal for dynamic air cleaners that utilize high voltage collection filter plates to accumulate microscopic debris and dust. The A-7 is specially designed to gently fold-back when excessive currents are being drawn due to high loads on its output. The A-7 operates from a 24 volt AC supply, and is fully encapsulated in a metal case for safety. A three prong AC adapter (with ground pin) may be purchased to operate the system.

TYPICAL APPLICATIONS

Electrostatic Air Cleaner
Low current 7kV source

SPECIFICATIONS

Input Voltage:
24 VAC 50-60 Hz Input Standard

Output Voltage:
7,000 VDC @ 100 μ A

Output Polarity:
Positive or negative (specify)
case = earth ground

Output Current:
100 μ A fold back

SPECIFICATIONS Continued

Voltage Regulation
20% NL – FL (typical) Resistive load (gentle foldback)

Ripple:
10% maximum at full load

Temperature Coefficient:
500 ppm/ °C

Stability:
< 5% drift / hour after warm-up to operating temperature

Operating Temperature:
-15 °C to +55 °C case temperature

Humidity:
10% to 90% RH non-condensing

Input Terminals:
Barrel Connector input for 24 VAC

Output Terminals:
High Voltage lead

Input Current:
2 W Module with 24 VAC input: 100 mA (max)

Power Efficiency:
70% typical

Encapsulation:
Epoxy potting

Short Circuit Ability:
Fold-back circuitry

Switching Frequency:
Typical 30kHz

Indicator:
Red LED on when operating

SPECIFICATIONS Continued

Cooling:

Convection: 2W module = 20 ° C case temperature rise

Dimensions:

6 L x 0.83 W x 0.95 H (152mm x 21mm x 24mm)

Weight:

7.2 oz (200 grams)

Encapsulation:

Epoxy potting

Finish:

Smooth Diallyl-Phthalate Thermoset Case

Terminations:

Flying leads for HV output
Barrel connector for AC input

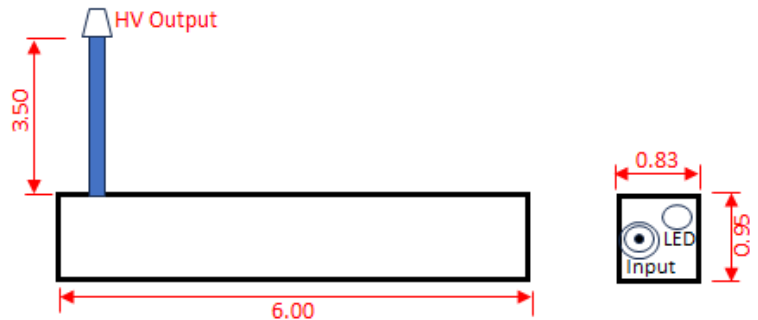
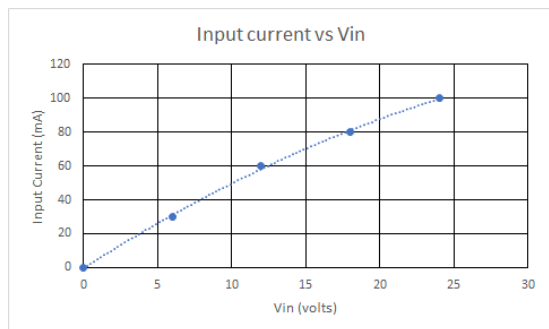
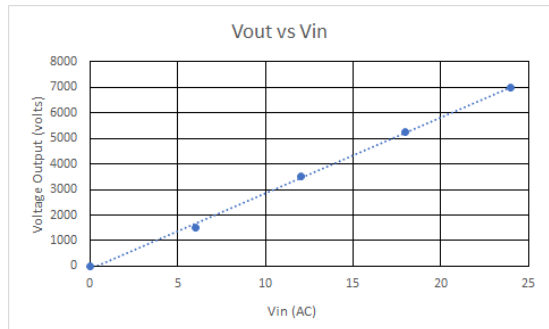
MODEL SELECTION TABLE

Model	Voltage	Power Available
A-7P	7,000v	2w
A-7N	-7,000v	2w
A-9P	9,000v	2w
A-9N	-9,000v	2w

All A units are 2 Watt devices

The above products are available in: 5vDC, 12VDC,
24vAC (standard) input

PERFORMANCE CHARTS



ORDERING INFORMATION

A - XY

X = Output voltage
Y = Polarity

Example:

A-7P: Maximum output = 7,000VDC 2 Watts 24 VAC Positive Polarity

HIGH VOLTAGE
for the
WORLD

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American High Voltage is an
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