



AMERICAN HIGH VOLTAGE

D Series MIL - Industrial Modules

HIGH VOLTAGE POWER SUPPLY



The D Series are regulated high voltage power supplies designed for power applications such as capacitor charging. They provide outputs of up 1kV and power levels to 20 Watts. The output of each power supply is floating with respect to the input line allowing either polarity to be configured. The output voltage of the D may be varied either with the unit trimpot, an external resistance, or an external control signal and may be programmed down to 0% of the maximum output voltage. All D models offer 0.01% line regulation and 3% no load to full load regulation. All D's are reverse input voltage and short circuit protected.

TYPICAL APPLICATIONS

General Lab Use
Electrostatics
Bias Voltage
Grid Supply
Ion Source
Geiger Counter Tubes

SPECIFICATIONS

Input Voltage:
28 VDC Input

Output Voltage:
From 100VDC to 1,000 VDC
See "model selection table"

Output Polarity:
Output is floating

Output Current:
depends upon power level
See "model selection table"

D Series 20 Watts Power

- **Regulated**
- **Floating output**
- **100 VDC to 1,000 VDC outputs available**
- **Voltage or resistance programable**

SPECIFICATIONS Continued

Voltage Regulation
3% NL – FL (typical) Resistive load

Ripple:
1% maximum at full load

Temperature Coefficient:
200 ppm/ °C

Stability:
< 0.5% drift / hour after warm-up to operating temperature

Operating Temperature:
-55 °C to +100 °C case temperature

Humidity:
10% to 90% RH non-condensing

Input Terminals:
Teflon solder terminals

Output Terminals:
Teflon solder terminals

Input Current:
20 W Module: 150 mA (No load)
20 W Module: 900 mA (Full load)

Power Efficiency:
80% typical

Encapsulation:
RTV potting

Short Circuit Ability:
Try-again circuitry

Switching Frequency:
Typical 100kHz

HIGH VOLTAGE
for the
WORLD

Corporate Office:
2002 Idaho Street
Elko, Nevada 89801
(775) 777-3631

www.ahv.com
American High Voltage is an
ISO 9001 company

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SPECIFICATIONS Continued

Cooling:

Convection: 20W module = 35 ° C case temperature rise

Dimensions:

4.0 L x 2.0 W x 0.85 H (101.6mm x 50.8mm x 21.6mm)

Weight:

5.6 oz (156 grams)

Encapsulation:

Elastomer potting

Finish:

Black anodized aluminum case

Terminations:

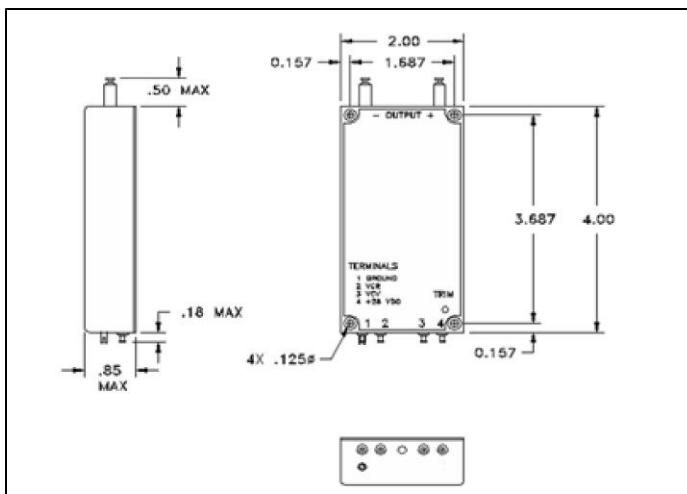
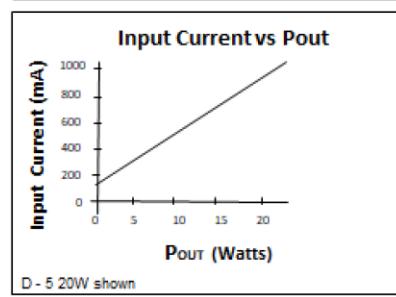
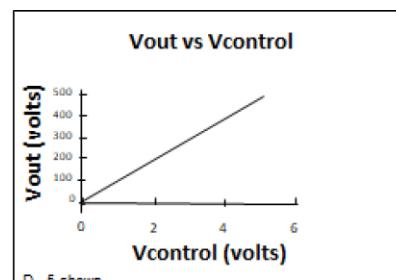
Teflon pins (6)

MODEL SELECTION TABLE

Model	Voltage	Power Available
D-1	100v	20w
D-2	200v	20w
D-3	300v	20w
D-5	500v	20w
D-10	1,000v	20w

The above products are available in:
24v, 28v (standard) or 48v input

PERFORMANCE CHARTS



Ordering Information:

D - XX / Z

XX = Output voltage
Z = Input voltage (blank if 28VDC)

Example:

D - 3 : Maximum output = 300 V 28 VDC input
D-5 / 48V: Maximum output = 500 V 48VDC input

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