



J Series

3 Watts

- Regulated line and load
- Floating output
- 100 VDC to 10,000 VDC outputs available
- Voltage or resistance programmable

The J models are ideal for photomultiplier, CRT, and other electro-optical applications. J series of power supplies offer regulated and adjustable output with power levels up to 3 Watts in a package just 3.6 cubic inches in size. Because the high voltage output is floating it is no connection to the input and either positive or negative output polarity may be obtained. The output is isolated from the input by over 1T Ohm with less than 30 pF coupling capacitance. The output of the J unit may be adjustable either by a trimpot or external voltage or resistance. Line regulation is better than 0.1% and load regulation is set at 3% from half load to full load condition. All J units are reverse input voltage and short circuit protected.

TYPICAL APPLICATIONS

General Lab Use
Electrostatics
Bias Voltage
Electrostatic Chuck
Ion Source
Geiger Counter Tubes

SPECIFICATIONS

Input Voltage:

28 VDC Input

Output Voltage:

From 100VDC to 10,000 VDC
See "model selection table"

Output Polarity:

Output is floating

Output Current:

depends upon power level
See "model selection table"

SPECIFICATIONS Continued

Voltage Regulation

3% Half Load – Full Load (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:

3W Module: 75 mA (No load)
3 W Module: 180 mA (Full load)

Power Efficiency:

60% typical

Encapsulation:

RTV potting

Short Circuit Ability:

Fold-back circuitry

Switching Frequency:

Typical 40-50kHz

SPECIFICATIONS Continued

Cooling:

Convection: 3W module = 25 ° C case temperature rise

Dimensions:

3.0 L x 1.5 W x 0.85 H (76.2mm x 38.1mm x 21.6mm)

Weight:

3.3oz (92 grams)

Encapsulation:

Elastomer potting

Finish:

Black anodized aluminum case

Terminations:

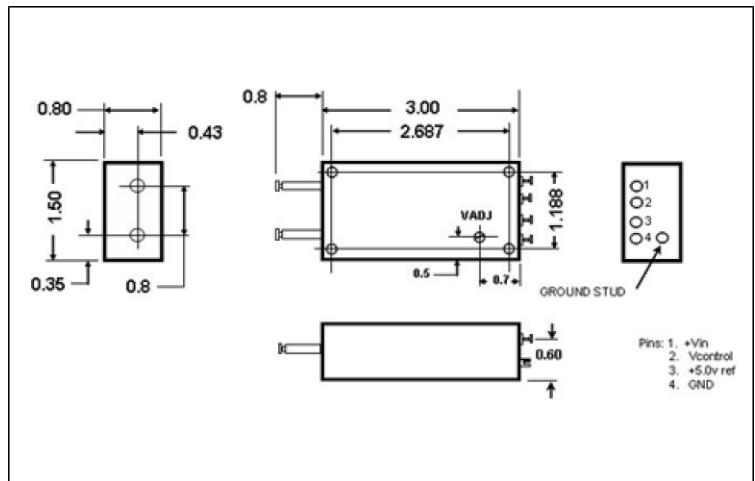
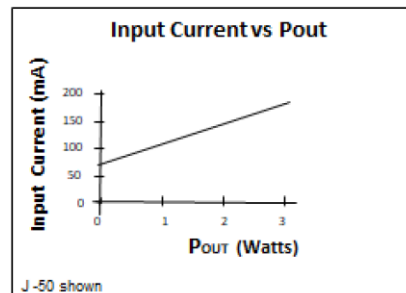
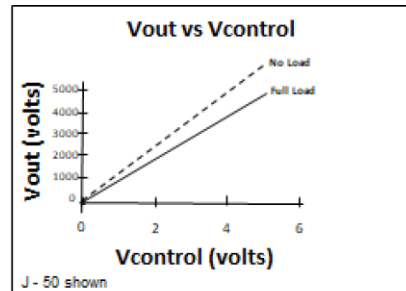
Teflon pins (6)

MODEL SELECTION TABLE

Model	Voltage	Power Available
J-1	100v	3w
J-3	300v	3w
J-6	600v	3w
J-12	1,200v	3w
J-25	2,500v	3w
J-50	5,000v	3w

The above products are available in:
12v, 24v, 28v (standard) or 48v input

PERFORMANCE CHARTS



Ordering Information:

J - XX / Z

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

Example:

J - 3 : Maximum output = 300V 28 VDC input

J - 6 / 24Vin: Maximum output = 600V 24VDC input