



SF Series

10 or 15 Watts Power

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

The SF series of power supplies offer regulated and adjustable output with power levels up to 15 Watts in a package just 6.4 cubic inches in size. Because the high voltage output is floating it is not connected to the input and any output polarity may be obtained. The output is isolated from the input by over 1T Ohm with less than 50 pF coupling capacitance. The output of the SF 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 SF's 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:
10 W Module: 150 mA (No load)
10 W Module: 650 mA (Full load)
15 W Module: 160 mA (No load)
15 W Module: 850 mA (Full load)

Power Efficiency:
60% typical

Encapsulation:
RTV potting

Short Circuit Ability:
Fold-back circuitry

Switching Frequency:
Typical 40-50kHz

