







## **KG-664 Regulated High-Voltage Power Supply**

### **SPECIFICATIONS**

<b>INPUT:</b>	110-130 v, 50/60 hz, single phase.
<b>OUTPUT VOLTAGES AND CURRENT:</b>	0-400 v, regulated DC at 0-200 ma continuous. 0-(-100) VDC at 1.0 ma variable bias voltage (line regulated) 6.3 VAC at 3.0 amps. 6.3 VAC center tapped, at 3.0 amps. 12.6 VAC at 3.0 amps by series connection. 6.3 VAC at 6.0 amps by parallel connection.
<b>STATIC REGULATION:</b>	
<b>Load:</b>	Less than 0.25% (1.0 v.) variation in output voltage from no load to full rated load.
<b>Line:</b>	Less than 0.6% (2.4 v) variation in output voltage for $\pm 10$ volt line variation at 120 VAC input.
<b>RIPPLE, JITTER, NOISE:</b>	Less than 5 mv RMS under all load conditions.
<b>METERS:</b>	Voltmeter and milliammeter accuracy $\pm 2\%$ of full scale value are provided on the front panel. The voltmeter is switched to read either the regulated output voltage or bias voltage. Voltmeter operates in both OPERATE and STANDBY modes.
<b>POLARITY:</b>	The output is "floating". Either polarity may be grounded to chassis by means of terminals provided.
<b>DUTY:</b>	Continuous full load at ambient temperature to 40° C in still air.
<b>COOLING:</b>	Convection.

### **DUALING:**

Two or more units may be operated in series to provide higher voltage output at the same rated current. Units of the same voltage and current ratings may be operated in parallel to increase the current capability.

### **TERMINATION:**

Ten front panel 5-way binding posts for maximum versatility on load connections. Chassis connection can be made from front or rear binding posts. Front panel regulated output voltage terminals controlled by OPERATE/STANDBY switch which allows voltage to be pre-set with load disconnected.

### **TUBES:**

4 Pass (6L6GC).  
1 Control (6DK6).  
2 Regulator (OA2, OB2).

### **MODE OF OPERATION:**

Constant voltage continuous 0-400 volts at 0-200 ma continuous.

### **PROTECTION:**

Primary fuse on rear panel of chassis.

### **OUTPUT IMPEDANCE:**

Less than 10  $\Omega$ .

### **SIZE:**

7 $\frac{3}{4}$ " x 14 $\frac{3}{4}$ " x 9 $\frac{3}{4}$ " (HWD).

### **WEIGHT:**

20 lbs.

### **FEATURES:**

- Regulated for line and load variations.
- Provides 6.3 or 12.6 volts for heaters.
- Voltmeter switched between high voltage and bias voltage.
- Positive-lock 5-way binding posts, spaced for GR plug.
- Conservatively rated, full 200 ma current drain capability for B +.
- Heavy-duty industrial toggle switches.
- Detachable line cord.
- .047 gauge steel case:
  - baked wrinkle, skuff-resistant finish.
  - decorative wrap-around extruded aluminum bezel.
- Ventilated for operation to ambient 40° C.
- All point-to-point hand-crafted wiring.
- Ground post available at rear of chassis.
- Two Simpson Electric D'Arsonval meters, simultaneously monitor voltage and current.
- Rugged 6L6GC series pass tubes (4).
- Heavy-duty, three-wire line cord available on special request.