



**Solid State, High Voltage Power Supply For Cold-Cathode (Gas Discharge) Lighting Applications**

**FEATURES:**

- Conforms to Current CE Requirements
- Secondary Earth Fault Interruption (SGFI)
- Output Over Voltage Interruption
- Anti-Bubbling / Anti-Mercury Migration Circuitry
- Open / Short Circuit Protected
- Pull String Or Inline Cord ON/OFF Switch
- 800-0184 / -0137 have IEC-320 Power Connector  
800-0185 / -0183 have Line Cord with Schuko Plug
- 800-0137 / -0183 Models Include Dimming
- Fully Enclosed, Light Weight
- Integral Sleeve GTO (HT) Output Leads

**SPECIFICATIONS:**

**INPUT**  
Voltage: 220-240 VAC Nominal  
(200-265 VAC operating range)  
Frequency: 50/60 Hz.  
Current: 0.35 Amps rms maximum  
Power: 80 Watts  
(recommended operating max.  
at nominal line voltage)

**WEIGHT**  
0,68 kg. (1.5 Lbs.)

**OUTPUT**  
Rated Output: 4.0kV-E-4.0kV rms  
20mA rms  
Short Circuit Current 26mA rms  
4-20mA rms Dimmer  
Equivalent Sign Volts: 10kV maximum  
2kV minimum  
Frequency 20 kHz

**TEMPERATURE**  
Ambient operating: 50°C (122°F) Maximum (in open air)

**Operation Under Fault Conditions:**

If a situation occurs that results in either a Secondary Earth Fault or an Over Voltage Protection shutdown, the high voltage output of this device will be deactivated. Once shutdown, the output will not restart unless the power switch is turned OFF, and after five seconds turned back ON again. Alternatively, the fault shutdown may be cleared by removing the power cord from the mains outlet, waiting approximately 30 seconds, and then plugging it back in.

**TABLE 1**

LUMINOUS TUBE LENGTH (METERS)							
Tube Size Diameter [mm]	15	13	12	11	10	9	8
Fill Pressure mm of Hg at 100°C	9	10	11	12	13	15	16
Tube Length - Neon	14,6	11,3	9,5	7,9	6,4	4,9	3,7
Tube Length - Mercury/Argon	17,7	14,0	12,2	10,7	9,1	7,6	6,1

**TUBE LENGTH ADJUSTMENTS:**

Deduct 0,4m for each electrode pair beyond the first pair.  
Deduct 1.5m for use with sheet metal or metalized sign frame.  
Deduct 1.5m for each 11°C above ambient temperature of 24°C.

**INSTALLATION:**

Mounting (see Figure 1):

- For Indoor Use Only
- Use (2), #10-24 machine screws, at least 8mm longer than the thickness of the mounting surface.
- If mounting to a metal surface other than a bar frame, a minimum 19mm thick non-metallic spacer must be used.
- No Earth grounding means is required if the sign has no exposed metallic surfaces.
- For proper grounding of the sign frame, use a #10 internal tooth star washer between the sign frame and the mounting boss identified with the Earth Ground symbol.

- CAUTION -

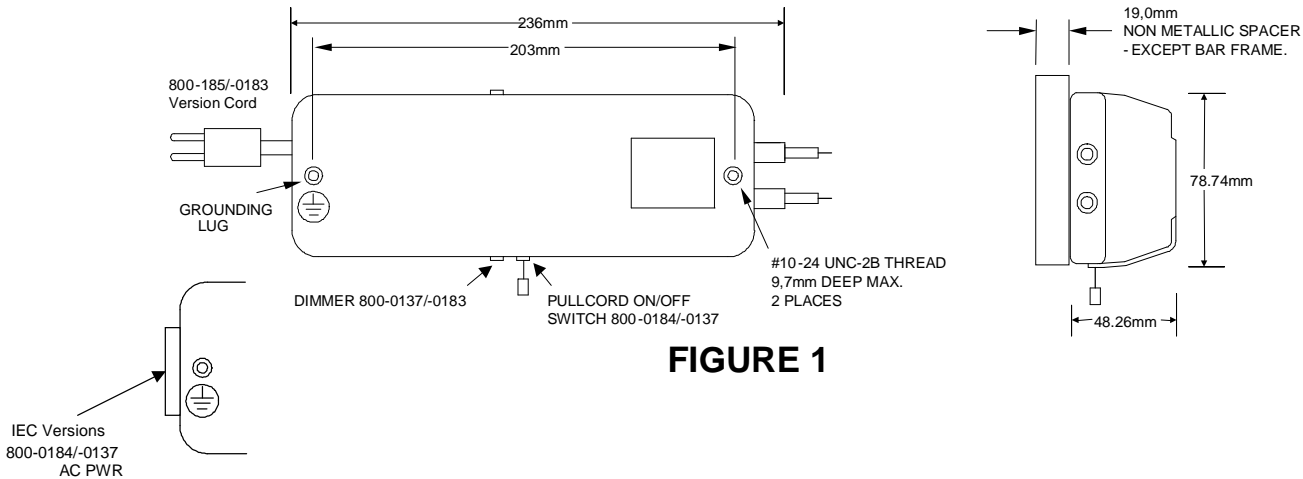
***This device should not be mounted in spaces or near bodies that may exceed an ambient temperature of 40°C (104°F).***

Wiring:

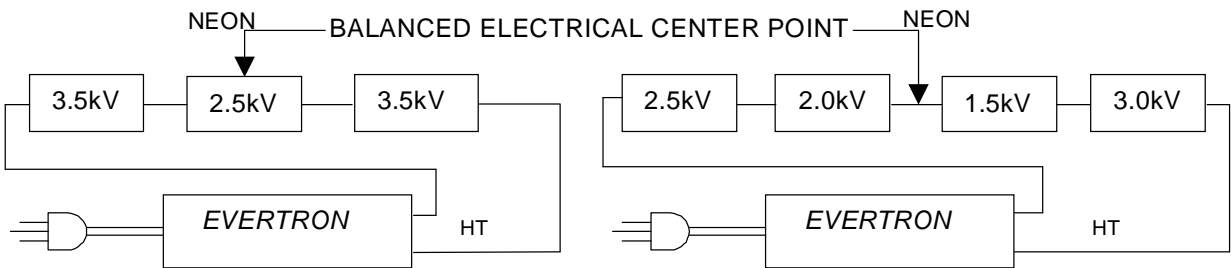
- The molded plug on the power cord must be connected to a dedicated, grounded mains circuit rated for at least 13A.
- The tube load for each power supply shall not exceed the footage limits specified in Table 1.
- The power supply output leads (HT) are to be connected as shown in Figure 2.
- The GTO (HT) leads must not be extended past their nominal supplied length or power supply damage may occur.

- CAUTION -

***When two or more power supplies are required on a single neon sign, the output leads from one MUST NOT be wired in series or in parallel with the output leads from the other(s).***



**FIGURE 1**



**FIGURE 2**

**WARRANTY:**

Everbrite Electronics, Inc. warrants to the original purchaser the product described herein to be free from defects in material and workmanship for a period of one year from date of manufacture and will replace or repair, at the discretion of the manufacturer, products found to be defective. The liability of the company is limited to the replacement of the defective product.

No other warranty, whether expressed or implied, including any warranty of merchantability of fitness for a particular purpose, shall exist in connection with sale or use of such products.