The EPM series of high voltage power supplies provides very well regulated, low ripple high voltage in a highly efficient, compact design.

The output voltage and current are controllable over the full range of operation. Voltage and current programming and monitoring signals are all 0-10Vdc where corresponds to 0 to 100% rated output. A High Voltage Inhibit/Enable signal allows for simple on/off control of the power supply.

**TYPICAL APPLICATIONS**
- Electrophoresis
- Photomultipliers
- Electron Beam
- Laboratory Applications
- Ion Source
- Electrospinning

**SPECIFICATIONS**

**Input:**
+24Vdc ±10% @ 2A

**Output:**
8 models from 1kV to 30kV. Each model is available in positive or negative polarity output.

- Compact Package
- Voltage and Current Programming from Zero to Rated Output
- Test Points for Output Current and Voltage
- Control of Output Via Enable/Inhibit Signal
- OEM Customization Available

Voltage Regulation:
- Load: 0.02% of output voltage for a full load change.
- Line: 0.01% for ±10% change in input voltage.

Current Regulation:
- Load: 0.01% of output current from 0 to rated voltage.
- Line: 0.01% of rated current over specified input range.

Ripple:
0.1% p-p of maximum rated output voltage.

Dimensions:
- 2.06"H x 5.63"W x 5.69"D
  
- (52.32mm x 143mm x 144.53mm)

Weight:
- 2.2 pounds (1kg)

Input Connector:
- 9 pin AMP Metri-Mate. Mating connector and pins supplied.

Output Cable:
- 18" ±1" (457mm) of UL® listed high voltage wire.

Voltage Stability:
0.02% per 8 hours (after 1/2 hour warm-up).

Voltage Temperature Coefficient:
0.01% per °C.

Voltage Test Point:
10Vdc ±2% = maximum rated output.

Current Test Point:
10Vdc ±2% = maximum rated output.

Remote Enable:
- 3.4Vdc = HV ON.
- 1.0Vdc or open = HV OFF.

Regulatory Approvals:
- Compliant to EEC EMC Directive.
- Compliant to EEC Low Voltage Directive.
- UL/CUL recognized, File E148969
**EPM SELECTION TABLE**

<table>
<thead>
<tr>
<th>Maximum Rating kV</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EPM 1*30</td>
</tr>
<tr>
<td>3</td>
<td>EPM 3*30</td>
</tr>
<tr>
<td>5</td>
<td>EPM 5*30</td>
</tr>
<tr>
<td>10</td>
<td>EPM 10*30</td>
</tr>
<tr>
<td>15</td>
<td>EPM 15*30</td>
</tr>
<tr>
<td>20</td>
<td>EPM 20*30</td>
</tr>
<tr>
<td>25</td>
<td>EPM 25*30</td>
</tr>
<tr>
<td>30</td>
<td>EPM 30*30</td>
</tr>
</tbody>
</table>

*Specify “P” for positive polarity or “N” for negative polarity.

**INPUT—9 PIN AMP CONNECTOR**

<table>
<thead>
<tr>
<th>PIN</th>
<th>SIGNAL</th>
<th>PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power Ground</td>
<td>Power Ground</td>
</tr>
<tr>
<td>2</td>
<td>+24Vdc</td>
<td>+24Vdc @ 1.85 amp, maximum</td>
</tr>
<tr>
<td>3</td>
<td>High Voltage Enable/Inhibit</td>
<td>0Vdc = HV OFF, +5Vdc = HV ON (see manual for details)</td>
</tr>
<tr>
<td>4</td>
<td>Voltage Test Point</td>
<td>0 to 10Vdc = 0 to 100% rated output, Zout = 10kΩ</td>
</tr>
<tr>
<td>5</td>
<td>Current Test Point</td>
<td>0 to 10Vdc = 0 to 100% rated output, Zout = 10kΩ</td>
</tr>
<tr>
<td>6</td>
<td>Voltage Programming</td>
<td>0 to 10Vdc = 0 to 100% rated output, Zin = 10MΩ</td>
</tr>
<tr>
<td>7</td>
<td>Current Programming</td>
<td>0 to 10Vdc = 0 to 100% rated output, Zin = 10MΩ</td>
</tr>
<tr>
<td>8</td>
<td>+10Vdc Reference</td>
<td>+10Vdc @ 1mA maximum</td>
</tr>
<tr>
<td>9</td>
<td>Signal Ground</td>
<td>Signal Ground</td>
</tr>
</tbody>
</table>

**DIMENSIONS:** in.[mm]