HIGH VOLTAGE PROPORTIONAL POWER SUPPLIES

The new MV series of 3 watt proportional high voltage power supplies have replaced the MIL Electronics V series. These general purpose dc to dc converters are designed for PCB mounting with 05 high profile and weighing less than 2 ounces. They offer output voltages to 6000 volts with efficiencies to 85%. A shielding option is available. They are fully encapsulated and available in optional. PCB pin patterns.

<table>
<thead>
<tr>
<th>Model</th>
<th>Input I (F. L.)</th>
<th>Input Voltage</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Ripple P-P %</th>
</tr>
</thead>
<tbody>
<tr>
<td>MV100</td>
<td>425 mA</td>
<td>.8 to 12V</td>
<td>0 - 100V</td>
<td>30 mA</td>
<td>0.1</td>
</tr>
<tr>
<td>MV500</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 500V</td>
<td>6 mA</td>
<td>0.2</td>
</tr>
<tr>
<td>MV1000</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 1000V</td>
<td>3 mA</td>
<td>0.03</td>
</tr>
<tr>
<td>MV1500</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 1500V</td>
<td>2 mA</td>
<td>0.05</td>
</tr>
<tr>
<td>MV2000</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 2000V</td>
<td>1.5 mA</td>
<td>0.25</td>
</tr>
<tr>
<td>MV3000</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 3000V</td>
<td>1.0 mA</td>
<td>0.25</td>
</tr>
<tr>
<td>MV4000</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 4000V</td>
<td>0.75 mA</td>
<td>0.5</td>
</tr>
<tr>
<td>MV5000</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 5000V</td>
<td>0.6 mA</td>
<td>0.5</td>
</tr>
<tr>
<td>MV6000</td>
<td>400 mA</td>
<td>.8 to 12V</td>
<td>0 - 6000V</td>
<td>0.5 mA</td>
<td>0.5</td>
</tr>
</tbody>
</table>

FEATURES
- Low Profile PCB Mountable
- Replaces V Series
- Proportional Input/Output
- High Performance Low Ripple
- Reverse Polarity Protected
- Low Cost
- High Efficiency

OPTIONS
- Shielding Pin
- Output Center Tap
- Mounting Holes
- Alternate Pin Configurations

ELECTRICAL SPECIFICATIONS
- Power: 3 Watts
- Input Voltage: 0.8 (turn on) to 12 VDC
- Input Current: <175 mA No Load
- Input Current: < 400 mA Full Load
- Output Voltage: See Table
- Output Current: See Table
- Switching Frequency: Floating Output (+ and - Eo)
- Ripple: See Table
- Isolation: 3500 Volts
- Efficiency: 85% Typical

MECHANICAL SPECIFICATIONS
- Size: 2.5 X 1.5 X 0.50 H (63.5mm X 19mm X 12.7mm H.)
- Weight: 2 OZ
- Packaging: Epoxy Encapsulation
- Case: Dap
- Plated PCB Pins: 4 pins
- 0.394” L (1.1mm) X 0.40” Dia. (10.16 mm)