FEATURES

- Internal monitoring & fault indication
- Over voltage/Over current protection
- TTL on/off control
- Arc & short circuit protected
- MTBF exceeds 100,000 hours

This precision high voltage power supply provides all operating voltages required for high resolution color displays. It provides a fixed 25kv anode voltage at up to 1200 microamperes with .05 percent regulation and only 2 volts of ripple.

An adjustable focus voltage allows on-site display optimization. Tight regulation and extremely low ripple assure well defined raster lines.

A fixed G1 and an adjustable G2 supply are provided to permit easy intensity control.

Behlman has also included independent anode over voltage protection, over current protection on all outputs, over/under voltage fault reporting and a TTL – compatible remote enable input.

GENERAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage:</td>
<td>28 Volts DC ±2%</td>
</tr>
<tr>
<td>Input Current:</td>
<td>1.5 Amps Max.</td>
</tr>
<tr>
<td>MTBF:</td>
<td>100,000 hours</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>8.0&quot;L X 6.0&quot;W X 2.75&quot;H</td>
</tr>
<tr>
<td>Weight:</td>
<td>6 lbs</td>
</tr>
<tr>
<td>J1:</td>
<td>Input- M24308/3 series 25 pin connector (see page 2 for pin functions)</td>
</tr>
<tr>
<td>J2:</td>
<td>FOCUS- LGH ½ LI</td>
</tr>
<tr>
<td>J3:</td>
<td>ANODE- LGH 1LI</td>
</tr>
<tr>
<td>J4:</td>
<td>G2- LGH ½ LI</td>
</tr>
<tr>
<td>E1</td>
<td>.138-32 GND STUD, isolated from chassis</td>
</tr>
<tr>
<td>FOC ADJ</td>
<td>Focus adjustment 5.4 KV to 7.0 KV or 6.8 KV to 8.8 KV programmable</td>
</tr>
<tr>
<td>G2 ADJ</td>
<td>Voltage adjustment 300 V to 500 V or 500 V to 800 V programmable</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL:

| Operating Temperature:   | 0 to +70 degrees C Base Plate   |
| Storage Temperature:     | -40 to + 100 degrees C          |
DESIGNED TO MEET THE FOLLOWING MIL STANDARDS:

- Shock: MIL-S-901
- Vibration: MIL-STD-167
- Humidity: MIL-E-16400
- Fungus resistance: MIL-E-16400
- Salt fog: MIL-E-16400

OUTPUT(S):

<table>
<thead>
<tr>
<th>OUTPUT</th>
<th>VOLTAGE (volts)</th>
<th>CURRENT (μA)</th>
<th>REGULATION %</th>
<th>RIPPLE (V p-p)</th>
<th>TEMPERATURE COEFFICIENT (ppm/°c)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANODE</td>
<td>25,000 ± 250</td>
<td>1200</td>
<td>.05</td>
<td>.03</td>
<td>15</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>900-2200pF CAPACTIVE LOAD</td>
<td></td>
</tr>
<tr>
<td>FOCUS</td>
<td>5400-7500 or 6800-8800</td>
<td>+/-10</td>
<td>0.1</td>
<td>0.2</td>
<td>10</td>
<td>250</td>
</tr>
<tr>
<td>G2</td>
<td>300-500 or 500-800</td>
<td>+/-20</td>
<td>0.5</td>
<td>0.2</td>
<td>0.5</td>
<td>200</td>
</tr>
<tr>
<td>G1</td>
<td>-200 ±20</td>
<td>0-1,000</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>200</td>
</tr>
</tbody>
</table>

JI-Pin No. | Function
-----------|-----------
1          | +28 Vdc   |
2          | +28 Vdc RTN |
3          | G1 (-150 Vdc) |
4          | G1 RTN   |
5          | SPARE    |
6          | SPARE    |
7          | PMFL FLAG |
8          | TEST POINT 6 (RTN) |
9          | TEST POINT 5 (+28 Vdc) |
10         | TEST POINT 4 (ANODE) |
11         | TEST POINT 3 (FOCUS) |
12         | TEST POINT 2 (G2) |
13         | SPARE    |
14         | PMFL TEST |
15         | PMFL TEST RTN |
16         | HV ENABLE |
17         | SPARE    |
18         | SPARE    |
19         | G2 HI SELECT |
20         | FOCUS REF |
21         | TEST POINT 1 (G1) |
22         | FOCUS HI SELECT |
23         | RTN      |
24         | G2 REF   |
25         | G2 RTN   |