Part Number: 94020

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 0.05 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

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

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 (uA)</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>900-2200pF CAPACTIVE LOAD</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>.5</td>
<td>.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

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