

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 .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 $\pm 2\%$ |
| 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 $\frac{1}{2}$ LI |
| J3: | ANODE- LGH 1LI |
| J4: | G2- LGH $\frac{1}{2}$ 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):

| OUTPUT | VOLTAGE (volts) | CURRENT (uA) | REGULATION % | | RIPPLE (V p-p) | TEMPERATURE COEFFICIENT (ppm/°c) | REMARKS |
|--------|------------------------|--------------|--------------|------|----------------|----------------------------------|---------------------------|
| | | | LINE | LOAD | | | |
| ANODE | 25,000 ± 250 | 1200 | .05 | .03 | 15 | 200 | 900-2200pF CAPACTIVE LOAD |
| FOCUS | 5400-7500 or 6800-8800 | +/-10 | 0.1 | 0.2 | 10 | 250 | Adjustable/ Programmable |
| G2 | 300-500 or 500-800 | +/-20 | 0.5 | 0.2 | 0.5 | 200 | Adjustable/ Programmable |
| G1 | -200 ±20 | 0-1,000 | 0.5 | 0.5 | 0.5 | 200 | |

| <u>J1-Pin No.</u> | <u>Function</u> | <u>J1-Pin No.</u> | <u>Function</u> |
|-------------------|------------------------|-------------------|-------------------|
| 1 | +28 Vdc | 16 | HV ENABLE |
| 2 | +28 Vdc RTN | 17 | SPARE |
| 3 | G1 (-150 Vdc) | 18 | SPARE |
| 4 | G1 RTN | 19 | G2 HI SELECT |
| 5 | SPARE | 20 | FOCUS REF |
| 6 | SPARE | 21 | TEST POINT 1 (G1) |
| 7 | PMFL FLAG | 22 | FOCUS HI SELECT |
| 8 | TEST POINT 6 (RTN) | 23 | RTN |
| 9 | TEST POINT 5 (+28 Vdc) | 24 | G2 REF |
| 10 | TEST POINT 4 (ANODE) | 25 | G2 RTN |
| 11 | TEST POINT 3 (FOCUS) | | |
| 12 | TEST POINT 2 (G2) | | |
| 13 | SPARE | | |
| 14 | <u>PMFL TEST</u> | | |
| 15 | <u>PMFL TEST RTN</u> | | |

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