

### 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	

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



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