

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

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

JI-Pin No. Function

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



www.behlman.com

ORBIT POWER GROUP
Behlman Electronics

Headquarters:
 80 Cabot Court, Hauppauge, NY 11788
 631 435-0410 800 874-6727
 Fax: 631 951-4341

2363 Teller Road, Suite 108
 Newbury Park, CA 91320
 805 375-7046 800 456-2006
 Fax: 805 498-2147

sales@behlman.com