



GAMMA

SERIES UC

ELECTRICAL CHARACTERISTICS

Input Voltage: +24VDC +/-10%
Input Current: 400mA Maximum
Output Voltage: Adjustable from zero to rated
Output Voltage by adjustment of
DC input Voltage
Output Current: 5 Watts maximum
Load Regulation: 20% maximum
(1/2 load To full load)

PHYSICAL CHARACTERISTICS

Dimensions: 2-3/4" x 4-1/2" x 1-9/16" (up to 15kV)
3-1/2" x 5-1/8" x 1-9/16 (20, 25 & 30kV)
Weight: 1.5 lbs (up to 15kV)
2.5 lbs (20, 25, 30kV)
Packaging: Solid Encapsulation, metal case
With metal inserts in base
Terminations: Two terminals for DC input
12" Flying lead for output voltage

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range: 0 to 50°C

INSTALLATION

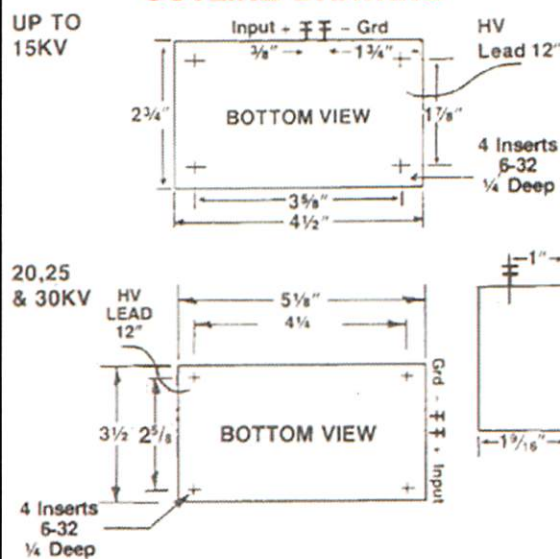
- A:** Four #6-32 x 1/4 screws are provided for mounting purposes. If screws are replaced, the depth into the inserts should not exceed 1/4"
- B:** Solder two 16 Gauge Leads to the (+) and (-) input terminals for connection to the external power source
- C:** Ground the (-) input either at the source supply or at the module terminal.
- D:** Connect the high voltage lead to the load. If possible use additional high voltage sleeving over the lead.

MODEL GUIDE

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
UC5-3	0 to 3kV*	1.6mA
UC5-5	0 to 5kV*	1.0mA
UC5-10	0 to 10kV*	0.5mA
UC5-15	0 to 15kV*	0.33mA
UC5-20	0 to 20kV*	0.25mA
UC5-25	0 to 25kV*	0.2mA
UC5-30	0 to 30kV*	0.166mA

**all models are available in either positive or negative polarity. Add P or N as suffix to model number to indicate desired polarity. 3kV, 5kV and 10kV models are available with reversible polarity. Consult Factory*

OUTLINE DRAWING



GAMMA HIGH VOLTAGE RESEARCH INC.

Designers/Manufacturers-High Voltage Power Supplies

1096 NORTH U.S. #1, ORMOND BEACH, FL 32174 * TEL. 386-677-7070, FAX 386-677-3039



GAMMA

REGULATED DC/DC HIGH VOLTAGE POWER SUPPLIES

SERIES UC

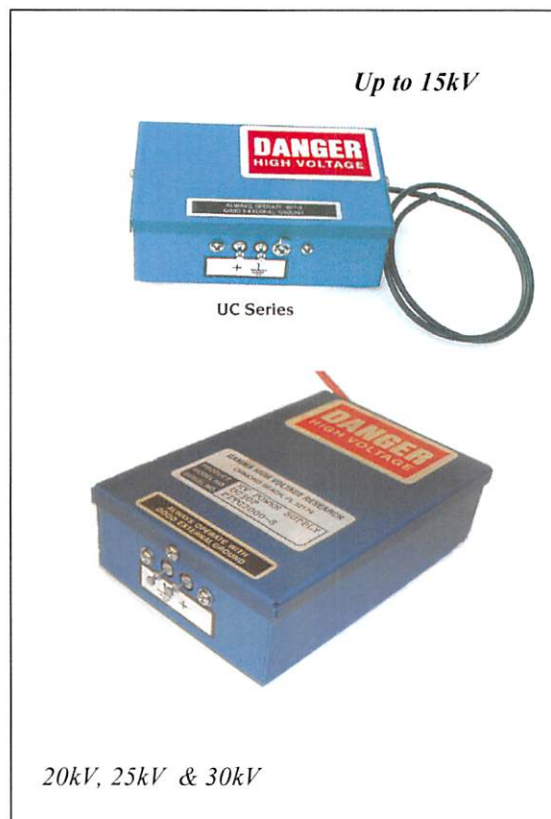
**7 Models Covering the range of
0-3 KV to 0-30 KV at up to 5 Watts**

FEATURES:

- Low Cost
- Output Proportional to Input
- Arc-Over and Short Circuit Protected
- Accoustics Inaudible >30 KHz
- Compact/Fully Encapsulated
- Small Size

APPLICATIONS:

- CRT Displays
- Image Intensifiers
- Photomultipliers
- Electrostatic Systems
- Control Grid Bias
- Ionization Chambers



DESCRIPTION:

The GAMMA "UC" Series utilizes high frequency sinusoidal power conversion techniques (>30KHz) enabling up to 30KV at 5 Watts to be achieved in a metal enclosure measuring 3 1/2 " x 5 1/8" x 1 9/16", while maintaining low stored energy.

All models are fully protected against arc-overs, short circuits and over-load.
Vacuum encapsulation insures corona free, reliable operation.



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