



GAMMA

PHOTOMULTIPLIER TUBE HIGH VOLTAGE POWER SUPPLIES

SERIES PMT

7 Models Covering the range of 0-1.5 KV to 0-20 KV

FEATURES:

- Low Ripple: 10PPM Peak-to-Peak
- Linear Circuitry - No RFI
- Precision Regulation - 0.001%
- Low Temperature Coefficient: 50ppm/°C
- 115/230 VAC Line Operation
- Short Circuit, Over-Load and Arc Protected
- Compact Modular Design
- Remotely Programmable



MODEL GUIDE

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
PMT 1.5-10	0 to 1.5KV	10mA
PMT 2-5	0 to 2KV	5mA
PMT 3-5	0 to 3KV	5mA
PMT 5-2	0 to 5KV	2mA
PMT 10-1	0 to 10KV	1mA
PMT 15-0.6	0 to 15KV	.66mA
PMT 20-0.5	0 to 20KV	.5mA

All units are available in Positive or Negative polarity. Add P or N as suffix to Model number to indicate polarity desired.

DESCRIPTION:

The GAMMA "PMT" series provides a modular, low noise, high voltage DC power source to meet the most stringent requirements of photomultiplier tubes. Regulation and ripple are held to 0.001%. Input voltage requirements are 115/230VAC, 50 to 400 Hz.

The GAMMA "PMT" series offers a variety of operator selected output control methods. Local adjustment via an internal 20-turn potentiometer provides full range control. Remote voltage programming can be achieved via a zero to +5 volts programming signal. These units can also be controlled by an external potentiometer. Voltage test points are provided to monitor the output voltage and current.

The "PMT" series utilizes linear circuit techniques insuring RFI free operation.



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



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SERIES PMT

ELECTRICAL CHARACTERISTICS:

Input Voltage: 115/230 VAC $\pm 10\%$ 50 to 400 Hz.

Output Voltage: Continuously adjustable from zero to maximum output rating.

Output Current: See ratings of individual models.

Regulation: 0.001% for $\pm 10\%$ line change
0.002% for NL-FL or FL-NL

Ripple: 0.001% peak-to-peak
0.005% peak-to-peak on 15KV and 20KV Models.

Stability: 0.01%/hour, 0.02%/8 hours

Temp. Coefficient: 50ppm/ $^{\circ}$ C over the range of 0 to 50 $^{\circ}$ C.

Voltage Monitor: 0 to +5V/100uA for zero to maximum output voltage.

Current Monitor: 0 to +5V (proportional to output current)

TTL Enable: +5 volt enable

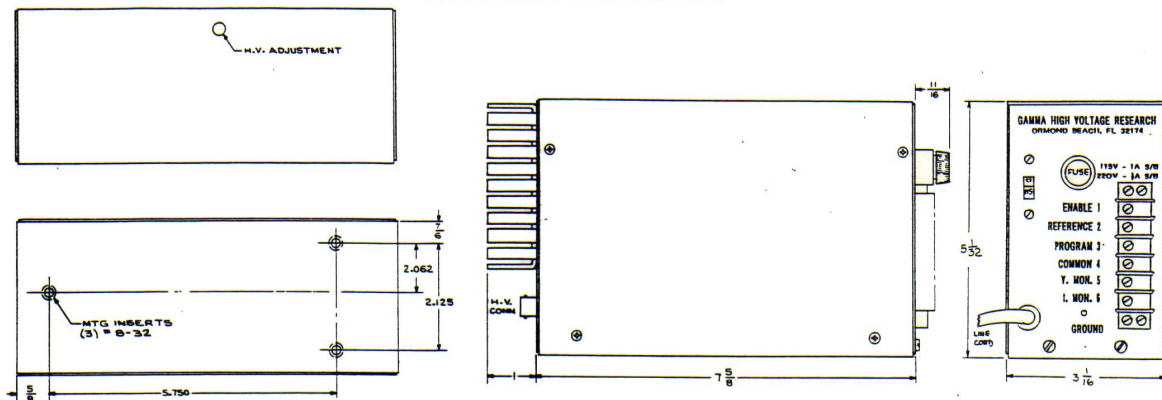
Control: Local: 20 turn potentiometer for zero to maximum output voltage.
Remote: Voltage 0 to +5 volts for full range.

Connections: INPUT via line cord provided. Terminal Block provided for programming and monitoring. Alternate connectors available.

OUTPUT Connector: Up to 5KV: MHV type connector.
Mating connector NOT provided.
10, 15 and 20KV: Alden type. Mating connector provided.

Size: 5-1/32" H x 3-1/16" W x 8-5/8" L

OUTLINE DRAWING



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