



GAMMA

SERIES XR

ELECTRICAL CHARACTERISTICS

Input Voltage: +28VDC $\pm 10\%$

Output Voltage: 10 Models from 1KV to 60KV. Positive or negative polarity models.

Voltage Regulation: Load: 0.01% of output voltage (NL to FL)
Line: $\pm 0.01\%$ for $\pm 10\%$ change in input voltage.

Current Regulation: Load: 0.1% of output current from 0 to rated voltage.
Line: 0.05% of rated current over specified input range.

Ripple: 0.1% P-P of output voltage.

Temp. Coefficient: 0.01% per $^{\circ}\text{C}$, voltage or current regulated.

Voltage Stability: 0.02% per 8 hours

*24VDC $\pm 10\%$ input available. Add /24 as suffix to the model number when ordering.

PHYSICAL CHARACTERISTICS

Dimensions: 5" x 9" x 3"
12.7cm x 23cm x 7.6cm

Interface Input

Connector: D-subminiature 15 pin connector

Power Input

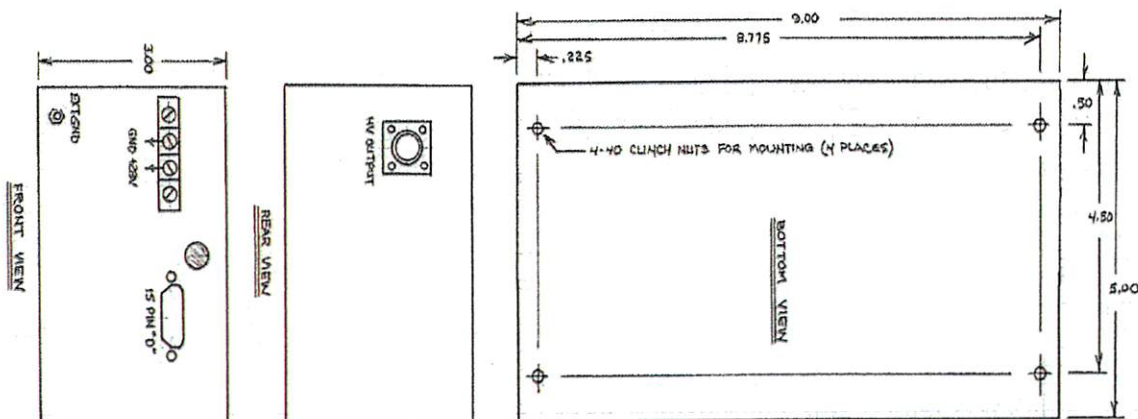
Connector: Terminal Block

Out put

Termination: Re-entrant type bushing is standard, with mating output cable provided.
Customer specified output connectors can also be

J1 15 PIN D-Sub

- 1 = Current Program
- 2 = Voltage Program
- 4 = Current Monitor
- 6 = External Interlock
- 7 = Voltage Monitor
- 10 = +10V Reference
- 5, 11 & 12 = Signal Common
- 13 & 14 = Chassis Ground



GAMMA HIGH VOLTAGE RESEARCH INC.

Designers/Manufacturers-High Voltage Power Supplies

1096 NORTH U.S. #1, ORMOND BEACH, FL 32174 * TEL. 386-677-7070, url: gammahighvoltage.com



GAMMA

**Regulated DC/DC
High Voltage
Power Supplies**

SERIES XR

**10 Models Covering the range of
0-1 KV to 0-60 KV up to 60 Watts**

FEATURES:

- Voltage/Current Programmable
- Constant Voltage/Constant Current
- Voltage/Current Monitoring
- External Interlock
- Arc & Short Circuit Protected

APPLICATIONS:

- X-Ray Systems
- CRT Displays/Projection Systems
- Photomultipliers
- Capacitor Chargers
- Lasers

MODEL GUIDE

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
XR 60-1	0 to 1.0KV	0 - 60mA
XR60- 1.5	0 to 1.5KV	0 - 40mA
XR60- 3	0 to 3KV	0 - 20mA
XR 60-10	0 to 10KV	0 - 6mA
XR 60-15	0 to 15KV	0 - 4mA
XR60- 20	0 to 20KV	0 - 3mA
XR 60-30	0 to 30KV	0 - 2mA
XR60- 40	0 to 40KV	0 - 1.5mA
XR60- 50	0 to 50KV	0 - 1.2mA
XR 60-60	0 to 60KV	0 - 1.0mA

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

* 24VDC input is available. Add /24 as suffix to model number.



DESCRIPTION:

The GAMMA "XR" series provides a compact, highly stabilized, variable high voltage power source of either negative or positive polarity, with ratings to 60KV and power levels to 60 watts, powered by a 28 VDC* source. The utilization of switch-mode MOSFET technology allows excellent efficiency increasing overall reliability. High voltage circuits are vacuum encapsulated in a silicone elastomer providing corona free, long term reliability.

Dual control loops allow independent control of both voltage and current where required.

All control circuits are ground referenced allowing for ease of interfacing and control.

The excellent electrical characteristics of the "XR" series make it an ideal choice for the most demanding high voltage applications.



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