



GAMMA

REGULATED DC/DC HIGH VOLTAGE POWER SUPPLIES

SERIES LXR

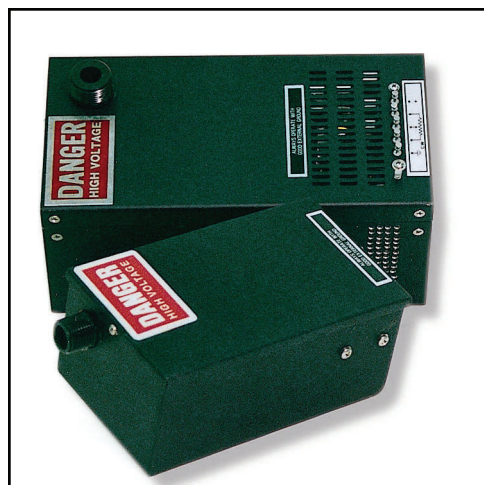
**10 Models Covering the range of
0-1 KV to 0-50 KV up to 30 Watts**

FEATURES:

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

APPLICATIONS:

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



Optional Connectors shown above

MODEL GUIDE

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
LXR 30-1	0 to 1.0KV	0 - 30mA
LXR 30-1.5	0 to 1.5KV	0 - 20mA
LXR 30-2	0 to 2KV	0 - 15mA
LXR 30-3	0 to 3KV	0 - 10mA
LXR 30-5	0 to 5KV	0 - 6mA
LXR 30-10	0 to 10KV	0 - 3mA
LXR 30-20	0 to 20KV	0 - 1.5mA
LXR 30-30	0 to 30KV	0 - 1mA
LXR 30-40	0 to 40KV	0 - 750uA
LXR 30-50	0 to 50KV	0 - 600uA

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 "LXR" series provides a compact, highly stabilized, variable high voltage power source of either negative or positive polarity, with ratings to 50KV and power levels to 30 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 "LXR" series make it an ideal choice for the most demanding high voltage applications.



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 LXR

ELECTRICAL CHARACTERISTICS

Input Voltage: +28VDC +/-10%

Output Voltage: 10 Models from 1KV to 50KV. Positive or negative polarity models.

Voltage Regulation: Load: 0.05% of output voltage (NL to FL)
Line: $\pm 0.01\%$ for $\pm 10\%$ change in input voltage.

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

Ripple: 0.5% P-P of output voltage.

Temp. Coefficient: 0.01% per °C, voltage or current regulated.

Voltage Stability: 0.02% per 8 hours

PHYSICAL CHARACTERISTICS

Dimensions:

3.75" x 6.0" x 2.75"(H) up to and including 40kV

4.375" x 7.5"* x 3" (H) 50kV Supplies

4.375" x 8.5"* x 3"(H)

*Not including flange

* *with mounting flange included

Input Connector: D-Subminiature 15 Pin Connector

Power Input Connector: Terminal Block

Out put Termination: Flying Wire
(Customer specified connectors can also be provided)

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range: 0 to 50°C

Storage Temperature Range: 0 to 70°C



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