

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

MODEL GUIDE

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

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



Optional Connectors shown above

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.

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^{* 24}VDC input is available. Add 24 as suffix to model number.



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

Output 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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