

LXR SERIES

REGULATED DC/DC HIGH VOLTAGE POWER SUPPLIES

Compact, highly stabilized 28 VDC-input supplies delivering up to 30 W from 1 to 50 kV. Independent ground-referenced voltage and current loops, monitoring, and interlock simplify integration. A vacuum-encapsulated silicone high voltage section supports corona-free, long-term reliability.



1-50 kV

OUTPUT RANGE

30 W

RATED POWER

28 VDC

NOMINAL INPUT

CV / CC

REGULATION MODES

KEY CAPABILITIES

- Voltage and current programmable
- Automatic constant-voltage / constant-current operation
- Voltage and current monitoring
- External interlock capability
- Arc-over and short-circuit protection

TYPICAL APPLICATIONS

- X-ray systems
- CRT displays and projection systems
- Photomultiplier bias
- Capacitor charging
- Laser systems

STANDARD MODEL GUIDE

Model	Output voltage	Output current
LXR 30-1	0-1 kV	0-30 mA
LXR 30-1.5	0-1.5 kV	0-20 mA
LXR 30-2	0-2 kV	0-15 mA
LXR 30-3	0-3 kV	0-10 mA
LXR 30-5	0-5 kV	0-6 mA
LXR 30-10	0-10 kV	0-3 mA
LXR 30-20	0-20 kV	0-1.5 mA
LXR 30-30	0-30 kV	0-1 mA
LXR 30-40	0-40 kV	0-750 uA
LXR 30-50	0-50 kV	0-600 uA

Choose the model for the required output voltage. Add P or N for polarity, and add /24 when the 24 VDC input option is required.



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1-50 kV | UP TO 30 W

HIGH VOLTAGE SOLUTIONS

LXR SERIES | 02

ELECTRICAL CHARACTERISTICS

Input	+28 VDC +/-10%
Alternate input	+24 VDC version available
Output	Ten models, 1-50 kV, positive or negative
Voltage regulation	Load: 0.05% of output voltage, no load to full load; line: +/-0.01% for +/-10% input change
Current regulation	Load: 0.05% of output current from 0 to rated voltage; line: 0.05% of rated current over the specified input range
Ripple	0.5% peak-to-peak of output voltage
Temp. coefficient	0.01% per deg C in voltage or current regulation
Stability	0.02% per 8 hours

INTEGRATION AND CONTROL

- Ground-referenced voltage and current programming
- Output-voltage and output-current monitoring
- External interlock capability
- Independent voltage and current control loops
- 15-pin control interface and separate terminal-block power input

PHYSICAL AND ENVIRONMENTAL

Nominal dimensions	Through 40 kV: 3.75 x 6.0 x 2.75 in; 50 kV: 4.375 x 7.5 x 3.0 in excluding flange, or 4.375 x 8.5 x 3.0 in including flange. See drawings for exact case and connector projections.
Control interface	15-pin D-subminiature
Power input	Terminal block
HV output	Flying wire; customer-specified connectors available
Operating temp.	0 to 50 deg C
Storage temp.	0 to 70 deg C
Construction	Vacuum-encapsulated silicone high voltage section

CONFIGURATION OPTIONS

- Positive or negative output polarity
- 24 VDC input: add /24 suffix
- Customer-specified high voltage output connector
- RoHS-compliant version available

MODEL NUMBER FORMAT

LXR 30-[Voltage][Polarity][24]

EXAMPLE

LXR 30-10P/24 10 kV | Positive | 30 W

P = positive N = negative /24 = 24 VDC input

HIGH VOLTAGE SOLUTIONS

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Get in touch

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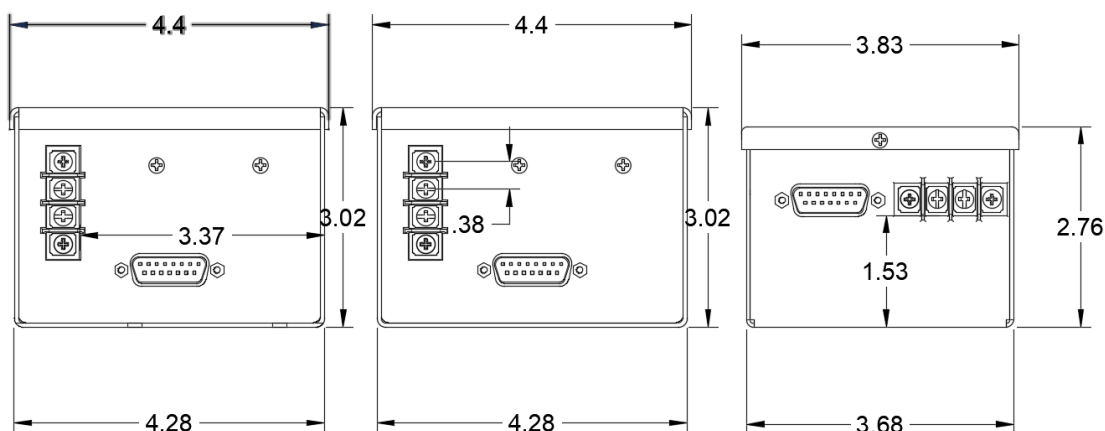
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MECHANICAL DRAWINGS

Mechanical dimensions for the standard enclosures are shown below. Dimensions are in inches unless otherwise noted. Contact Gamma for assistance selecting the enclosure and connector arrangement for your configuration.

REAR-PANEL CONFIGURATIONS



SIDE VIEWS

