

The XLB series Xenon lamp ballasts are designed for the OEM customer. The XLB series is ideal for high power applications where economy is important and performance cannot be compromised.

Compact size is possible due to the low-loss Zero Voltage Switching inverter and incorporation of planar magnetics. Power factor is greater than 0.99 and conducted emissions meet stringent European regulations. No additional line filter is required to meet EN 55011 emission requirements.

The XLB Lamp Ballasts set the standard for reliable lamp ignition and long term high power operation in a low cost, compact package. All 5 models offer precision regulation and the lowest ripple specifications in the industry.

They are ideal for medical, projection and industrial applications where a stable light source is essential.





Advantages

Models from 650 to 5000 watts Ideal for OEM applications Reliable "Short Pulse" Ignition Power Factor Correction (1Ø models) Low conducted emissions Low Ripple < 0.5%

Applications

Digital Projection Film Projection Stage Lighting UV Sterilization Search Lights Solar Simulators Medical Illumination

Model	Pout max	lout max	V lamp	Input Voltage	Size
XLB-650	650 watts	35 A	30V max.	100 to 240 VAC	8.9" x 5.8" x 2.7" 226 x 147 x 69mm
XLB-1000	1000 watts	50A	25\/ may		10.6" x 8.2" x 3"
XLB-1500	1500 watts	75A	35V max.		269 x 208 x 76mm
XLB-2500	2500 watts	120A	35V max.	200 to 240 VAC	13.0" x 8.5" x 3.4" 330 x 215.9 x 86.4mm
XLB-3000	3000 watts	150A	50V max.		17" x 16.6" x 3.4" 431 x 422 x 108mm
XLB-5000	5000 watts	170A		200 to 440VAC 3Ø (selectable)	17.3" x 16.6" x 4.25"

Note: Maximum output voltage is preset. Actual output voltage tracks the impedance of the lamp.

Specifications

Input Voltage: All input voltages Power Factor: Efficiency:

Interface

Connector:

See table: ± 10%, 50/60Hz >.98 (1Ø Models) >80%

(See interface description page 3) 15 Pin "D" Sub Female

Ignition/Boost

Boost Voltage: Boost Energy: Ignition Voltage: Igniter Polarity: Ignition Energy: 65mj. Igniter Dimensions: 250V 500 mj. Up to 45kV (~1uSec rise time) Positive or Negative (Factory Set)

(XLB-650/1000/1500/2500/3000) 5.5" x 3.6" x 2.6" 140 x 92 x 66mm (XLB-5000) 7.0" x 4.625" x 2.5"/ 177 x 116 x 63mm

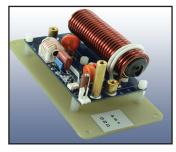
Performance

Line Regulation: Current Regulation: Current Ripple: Power Limit: <0.2% of maximum output current <0.5% of Maximum output current <0.5% of maximum output current Limited to maximum power with power fold-back circuit

Environment

Operating Temp: Storage: Humidity: Cooling: 0 to 40⁰C -25 to 85⁰C 0 to 95% RH non-condensing Forced air

Note: XLB-5000 can be upgraded to 7kW. Contact customer service for details. Units can also be paralleled for higher power applications.



XLB-650/1000/1500/2500 /3000 Igniter



XLB-5000 Igniter

Short Pulse high energy igniters operate from power supply output. Reliable automatic lamp ignition.

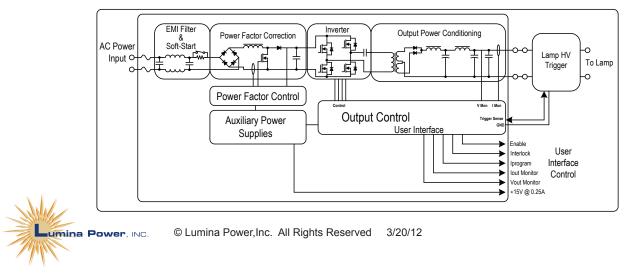
Also Available: The new MLB-series short-arc lamp power supplies designed with constant power output to operate Mercury lamps. Contact customer service or visit our website for more details.

Interface

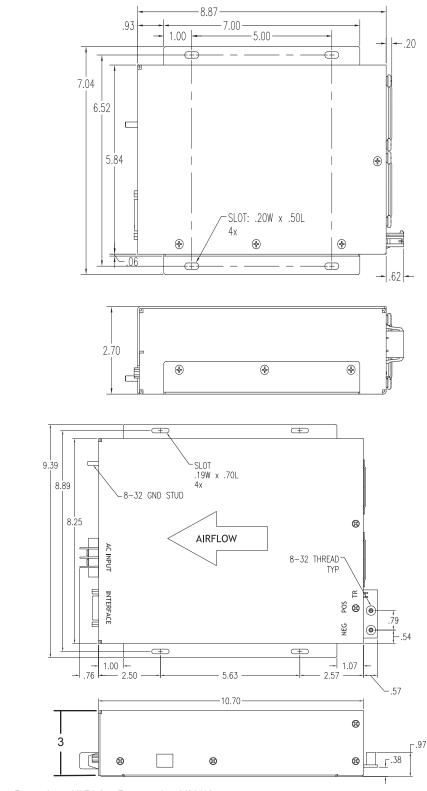
Pin #	Pin Name	Functional Voltage Level	Description
1	Lamp On/Off (input) (Note: 1)	High = RUN = +5V to +15V Low = OFF = 0V	The Lamp On/Off function is the control func- tion which turns the lamp on and off. When the lamp is turned on, a trigger and boost sequence will ignite the lamp and deliver current as pro- grammed via Iprogram, Pin 7.
3	Interlock (Input)	Open = OFF Connect to GND = RUN	The Interlock function can be connected to ex- ternal interlock switches such as door or over- temp switches.
4,9, 15	GND		Interface Return
5	Vout Monitor (out- put)	0-10V = 0-Voutmax	The output voltage of the supply can be moni- tored by Vout Monitor. Note: See selection chart on page 2 for maximum output voltage setting per model.
6	lout Monitor (output)	0-10V = 0-loutmax	The output current of the supply can be moni- tored by lout Monitor.
7	Iprogram (input)	0-10V = 0-loutmax	The power supply output current is set by apply- ing a 0-10V analog signal to Iprogram(+).
8	Lamp Status	High = lamp off = 15V Low = lamp on = 0V	The status of the lamp can be monitored using this pin
13,14	+15V (output)		Auxiliary 200mA

XLB Series Block Diagram

(power factor corrected models)



Outline Drawings (dimensions in inches)

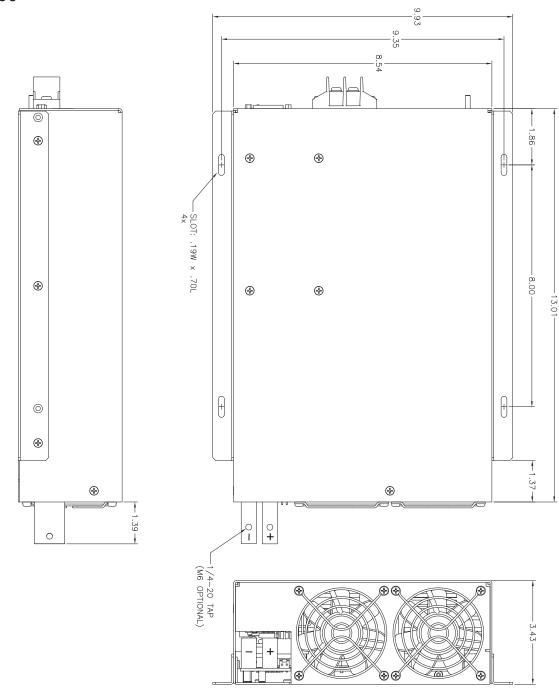


XLB-650

XLB-1000/1500



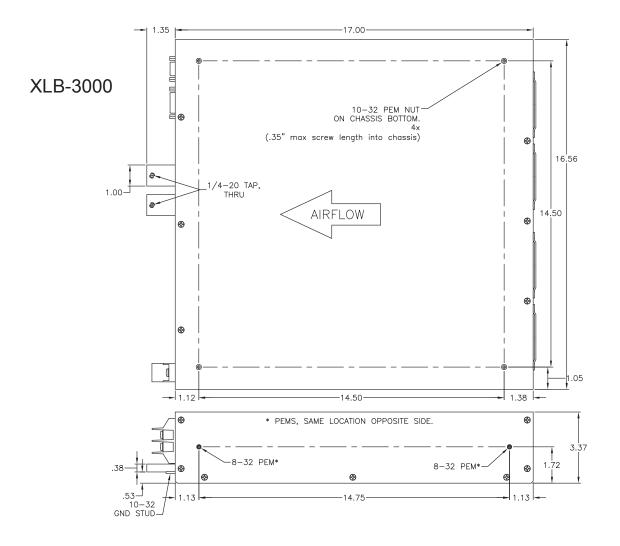
XLB-2500



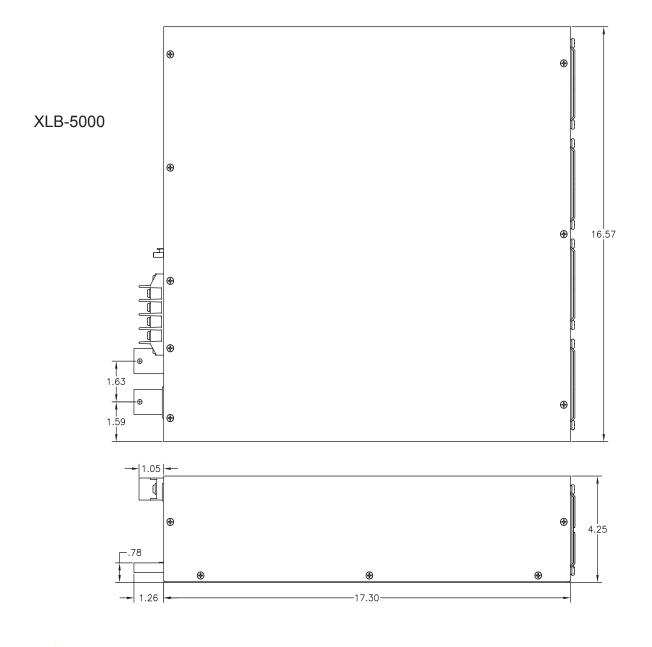
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Outline Drawings (dimensions in inches)









Lumina Power reserves the right to change the specifications of this product without notice or liability. Contact customer service for latest specifications.

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