

XLB-3000 Xenon Arc Lamp Driver

3000 Watts with Igniter

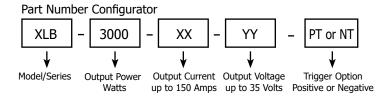
Features:

- 3000 watts output
- Low ripple current < 0.5%
- Reliable short-pulse igniter
- Power Factor >.98
- Analog interface
- Designed to meet: IEC 60950-1
- Low cost, compact size

The XLB-3000 is a high-performance current source designed to operate and control Xenon short-arc lamps. The design features a high frequency inverter section for low ripple and reduced arc wander in the lamp. To properly start the lamp the remote igniter delivers a fast rise time, short pulse for reliable ignition and reduced lamp electrode wear.

The XLB-3000 features a user-friendly analog interface that allows for easy programming and monitoring of output settings, as well as advanced safety features such as over-voltage, over-current, and over-temperature protection.

This versatile and reliable Xenon arc lamp driver is well suited for medical and industrial applications where a stable light source is essential.



To complete the model description part number, please provide your required Max. Current for XX value and your required Max Voltage for the YY value and provide your required triggering polarity for either Positive or Negative.



Applications:

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



Remote Short-Pulse Igniter





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Specifications

Input				
Voltage	200 to 240VAC, ±10%, 50/60 Hz			
Power Factor	>.98			
Efficiency	>80%			
Output				
Power	3000 watts			
Current (Max.)	150 Amps			
Voltage (Max.)	35 Volts			
Performance				
Line Regulation	<.2% of maximum output current			
Current Regulation	<.5% of maximum output current			
Current Ripple	<.5% of maximum output current			
Power Limit	Limited to maximum power with fold back circuit			
Certification	Designed To Meet CE; IEC-60950-1:2001 (1st Edition), EN 60950-1:2001, UL 60950-1, CSA 22.2 No. 60950-1-03; IT Equipment			

Ignition/Boost				
Ignition Voltage	Up to ~45kV (~1µSec, rise time)			
Ignition Energy	65mj.			
Ignition Polarity	Positive or Negative (factory set)			
Boost Voltage	Up to 275V			
Boost Energy	500 mj.			
Environment				
Operating Temp.	0 to 40°C			
Storage Temp.	-25 to 85°C			
Humidity	0 to 95% RH non-condensing			
Cooling	Forced Air			
Dimensions				
Power Supply	L17.0" x W16.56" x H3.37" (431.8 x 420.6 x 85.6mm)			
Igniter	L6.50" x W3.12" x H2.32" (165.1 x 79 x 59mm)			

Maximum output voltage is preset. Actual output voltage tracks the impedance of the lamp. Units can be paralleled for higher power applications.

Interface (15 pin D-Sub Female)

Pin#	Pin Name	Functional Voltage Level	Description
1	Lamp On/Off (input)	High = RUN = +5V to +15V Low = OFF = 0V	The Lamp On/Off function is the control function 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.
3	Interlock (Input)	Open = OFF, Connect to GND = RUN	The Interlock function can be connected to external interlock switches such as door or overtemp switches.
4,9,15	GND		Interface Return
5	Vout Monitor (output)	0-10V = 0-35V	The output voltage of the supply can be monitored by Vout Monitor.
6	Iout Monitor (output)	0-10V = Ioutmax	The output current of the supply can be monitored by Iout Monitor.
7	Iprogram (input)	0-10V = 20%-Ioutmax	The power supply output current is set by applying 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
12	-15V		Auxiliary 200mA.
13,14	+15V (output)		Auxiliary 200mA.

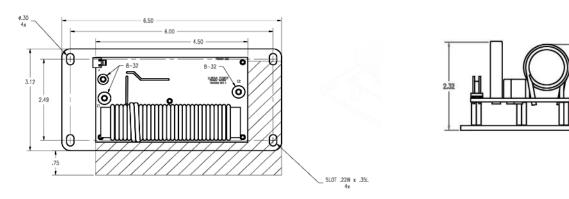


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1.35 **Outline Drawings** For more information on the proper installation and operation of the power supply and igniter please refer to the XLB Application Notes. 10-32 PEM NUT ON CHASSIS BOTTOM. 国 (.35" max screw length into chassis) 0 16.56 1/4-20 TAP, THRU **AIRFLOW** 14.50 0 0 1 14.50 1.38 * PEMS, SAME LOCATION OPPOSITE SIDE. 8-32 PEM* 8-32 PEM* ℍ

Igniter



GND STUD

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SEE NOTES