

Model 600B



Power Supply Adjustment instructions

Rev.8/00

! Important Safeguards !

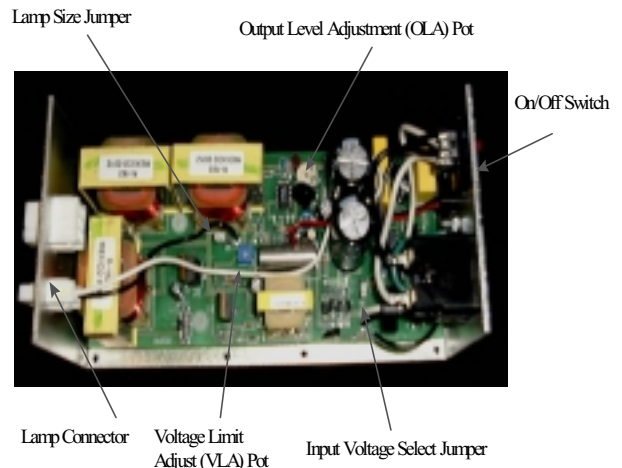
When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS:

- This product must be installed and serviced by licensed electrical contractors familiar with these instructions
- Always install in accordance with all applicable electrical codes
- Always disconnect power from the FLATLITE system before servicing
- Use of any components not supplied with the FLATLITE system, or the modification of the components supplied, may cause an unsafe condition
- Do not use this equipment for other than its intended purpose
- This equipment is approved and rated for connection of lamps as specified. Never exceed the Total Load Rating of any power supply

SAVE THESE INSTRUCTIONS

1. Remove the cover from the power supply and place so the components inside are accessible, and the white connectors are to your left. Be certain that the supply is completely disconnected from any power source.
2. Confirm that the input voltage select jumper is placed correctly for your operating voltage – 110 or 220 VAC. (110 VAC = jumper between the middle and bottom pins; 220 VAC = jumper between the middle and top pins)
3. Match the power supply to the lamp size. The 600B covers the range of 250 – 600 square inches of lamp in two ranges of 250 – 400 and 400 – 600 square inches. The Lamp Size Jumper must be positioned correctly for the lamp size. The Lamp Size Jumper should be between the middle and right pin for a lamp of 250 – 400 square inches; or between the middle and the left pin for a lamp of 400 – 600 square inches.
4. Locate the Output Level Adjustment (OLA) white pot and Voltage Limit Adjustment (VLA) blue pot. Only use non-conductive tools to adjust these pots!
5. Turn the VLA all the way clockwise; turn the OLA all the way counter clockwise.
6. After assuring that all lamp connections have been made and properly insulated, connect lamp to the power supply.
7. Connect a voltmeter capable of reading up to 400 VAC rms to the output of the power supply (usually by inserting the probes into the back of the 2 circuit white lamp connector)
8. Connect the power supply to an appropriate grounded power outlet. NOTE: All power supply adjustments must be made with the lamp connected to the power supply.
9. Turn on the power supply, the lamp should be dimly lit, and the voltage should read less than 280 VAC.
10. Adjust the Voltage output and limit pots:
 - a) Slowly adjust the OLA fully clockwise
 - b) Slowly adjust the VLA counter clockwise until the voltmeter indicates 320 VAC.
 - c) Slowly adjust the OLA counter clockwise until the voltmeter indicates 280 VAC. NOTE: 280 VAC is for maximum lamp brightness
 - d) Allow the system to stabilize for approx. five minutes. Then re-adjust the voltage to 280VAC. At this setting, the lamp is operating at its brightest. To reduce the brightness, and increase the life of the lamp, adjust the OLA to a lower value (less than 280 VAC). Adjust the OLA until the lamp brightness matches your requirements. A full range of brightness, from full on to off, may not be achievable with all lamp sizes



Troubleshooting

FLATLITE systems are very reliable when properly installed. However, the unique nature of an electroluminescent lamp and the extensive safety features of the power supply require some specific troubleshooting techniques.

Problem	Check	Solution
No Light	Power Supply Power Is the Supply plugged into a working outlet? Fuses in the Power Supply inlet connector Is the Supply on/off switch set to on?	Provide proper input voltage and current Replace Fuses Switch to "on"
	Power Supply Adjustment Has the power supply been properly adjusted for the lamp load?	Refer to installation Instructions
	Lamp Connections Is the lamp connected to the Power Supply? Are the lamps wired correctly?	Install/ Repair Connector Unplug the lamp(s) from the power supply Measuring across the lamp leads with a digital multimeter check the following: 1. Continuity (if Yes) there is a Short Circuit in Wiring Solution: Remove Short* 2. Capacitance (if No) there is an Open Circuit in Wiring Solution: Repair Wiring* Replace Power Supply
	If lamps are wired correctly, and power supply is adjusted and connected to a power source	
Lamp Flashes	Input Voltage Select Has the power supply been adjusted for the proper input voltage?	Refer to adjustment instructions
	Power Supply Adjustment Has the power supply been properly adjusted for the lamp load?	Refer to adjustment instructions
Lamp is Dim	Power Supply Adjustment Has the power supply been properly adjusted for the lamp load?	Refer to adjustment instructions
	Lamp replacement required Has the lamp been operating past it's useful life?	Replace Lamp

* Note: Problem may be in lamp crimp attachment or in distribution wiring. Disconnect lamp from distribution wiring to troubleshoot.

Specifications

Input Voltage:	120/ 240 VAC Jumper Selectable
Maximum Current:	0.9 Amps
Output Voltage:	200 - 330 VAC
For Lamp Sizes:	400 - 600 sq. inches
Output Connector:	Molex®
Dimensions:	3.6"w x 3.0" h x 7.5" d
Weight:	2lb 12 oz.

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