



## LPZ1000 PZT DRIVER



The model LPZ1000 PZT Driver is a stable, negative voltage supply. The output voltage is adjustable from 0 to -1500 Volts. The power supply is suitable for driving a piezoelectric transducer, such as the Burleigh model PZAT 337.

The voltage is adjustable with the front panel mounted ten-turn potentiometer. The 3.5 digit Digital Voltmeter displays the actual voltage applied to the transducer.

### **Manual High-Voltage Adjustment**

This mode of operation can be used at any time to do a quick check of laser cavity with respect to output frequency. It is also used to bring out weak laser lines when tuning the laser grating. Line center or peak power setting can be obtained by looking at the power output of the laser.

### **Laser Output Power Scanning**

The high-voltage ramping feature is built into the LPZ1000. This feature can be used to scan the laser output frequency or to scan the power profile of laser output with respect to output frequency.

## LPZ1000 -SPECIFICATIONS

### ELECTRICAL

Power Input: 115 VAC, 0.2A, 50/60 Hz.  
Output: Adjustable 0 to -1500 VDC, 1 mA.  
Regulation: >0.005% for 10% line variation  
Ripple: >0.02% for rated current  
Stability: >0.01%/hr for constant temperature and 0.5 hr warmup

### MECHANICAL

Size: 9.84" x 6.30" x 3.00" (250 mm x 160 mm x 76 mm)  
Weight: 2.0 lbs. ( 1.0 kg.)  
Color: Black

### FRONT PANEL

Display: 3.5 digit Green LED Digital Voltmeter  
HV Adjust: Continuous high high voltage adjustment in MANUAL mode,  
Sets upper limit in RAMP mode.  
Ramp: Manual adjustment of RAMP rise time  
Power ON: Red LED indicator

### REAR PANEL

AC IN/FUSE: Main power input, RFI filtered, 0.25A fuse, ON/OFF switch  
HV Output: MHV output of high voltage DC signal  
RAMP Sync: BNC signal for external triggering.



222 Snidercroft Rd., Unit 5 Concord, Ontario L4K 2K1 CANADA  
Phone: (905) 660-1775 Fax: (905) 660-2350 Email: sales@ltg-lasertech.com  
Website: <http://www.ltg-lasertech.com>

(C) LTG June 01, 2000