

# LDP500 Series

# Laser Diode Driver

**PRELIMINARY**

## 40, 80, or 120A Precision Laser Diode Driver



The LDP500 Series laser diode driver from Power Technology, Inc. is a precision current source designed for high power laser diode bars, arrays, and emitters. This highly efficient, low noise unit may drive single- or multi-junction laser diodes up to 40A (140W), 80A (280W), or 120A (470W).

Designed for safe, fault-free operation of laser diodes, each LDP500 Series driver comes equipped with current monitoring, a soft start

circuit, and diode protection upon shutdown.

In addition, the LDP500 Series driver comes standard with a 1024-step potentiometer that allows for external digital control of your unit. An optional multi-turn potentiometer is available for manual control of output current.

For additional information on our LDP500 Series driver, give us a call at 501.407.0712, or visit us online at [www.powertechology.com](http://www.powertechology.com).

### Features

- Diode protection upon shutdown
- Soft start circuit for maximum protection
- Reverse polarity protection
- Current monitoring
- 1024-step potentiometer for digital control
- CW or pulsed output

### Benefits

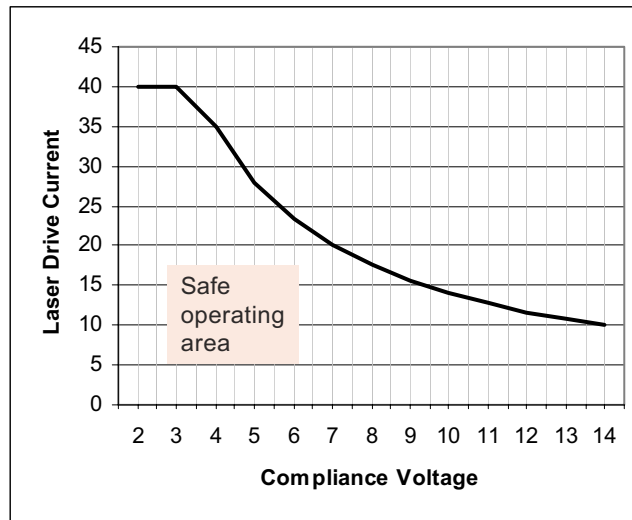
- Choice of output current and voltage
- One year warranty

### Dimensions

- 5.99" [152.15mm] width
- 3.85" [97.79mm] height
- 7.71" [195.88mm] length

	LDP501	LDP502	LDP503	
Electrical output power (W)	140	280	470	
Output mode	CW or pulsed			
Input voltage (VDC)	24 ± 4			
Input current (A)	7	14	21	
CW	Drive current (A)	40	80	120
	Drive voltage (V)	2, 4, 6, 8, 10, 12, or 14		
Pulsed	Pulse input (VDC)	0 to +5		
	Pulse width	to be determined		

### Power Curve For LDP501



Compliance Voltage	Max. Current
2	40
3	40
4	35
5	28
6	23.33333
7	20
8	17.5
9	15.55556
10	14
11	12.72727
12	11.66667
13	10.76923
14	10



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