



Ante Laser (Guangzhou) Co Ltd

11 Baoshi Road, Guangzhou 510730 PR China
 Tel: (+86-20) 82218379 Fax: 82218339 E-mail: sales@antelaser.com

Diode Laser Driver



The laser diode driver and TE controller is a high current-constant laser diode driver with a thermo-electric cooler controller. Current control, transient suppression, over-temperature protection, short circuit protection, and over current limit are provided. A temperature sensor is used to measure the temperature of the laser diode and then the constant-temperature is kept by automatically adjusting the current of the thermo-electric cooler. A micro-processor is used in the drivers. They can operate at CW mode or pulse mode. RS232 port is provided for convenient communication with external control equipment.

LDD60041 and LDD60042 are designed to driver a diode laser and 2 TE coolers TEC1-12714 in series or separately. If the laser diode and the laser head are placed together, LDD60041 is recommended. If the laser diode and the laser head are separately placed, LDD60042 is recommended. LDD40xx drivers are designed to driver the pump modules from CEO.

Model number: LDDxyyy-z

Description: LDD-laser diode driver; xx-output current in ampere; yy-output voltage in volt; z-remark (1-to driver 2pcs TECs in series; 2-driver 2pcs TECs in parallel)

Model	LDD6004-1 (LDD4004-1)	LDD6004-2 (LDD4004-2)	
Laser Diode Driver			
Output current	0-60A (0-40A)	0-60A (0-40A)	
Max. output voltage*	4VDC	4VDC	
Display resolution	0.01A	0.01A	
Control accuracy	0.01A	0.01A	
Noise ripple	<0.01A	<0.01A	
Thermo-electric Cooler Controller**			
		Channel 1	Channel 2
Max. output voltage	28VAC	14VAC	14VAC
Max. output current	14A	14A	14A
Temperature accuracy	0.1°C	0.1°C	0.1°C
General			
Operating temperature	10-40°C, non-condensing		
Power requirement	220VAC or 110VAC		
Body dimension	434x403x178 mm		
Control panel dimension	482x180x2 mm		
Weight	20kg		

Model	LDD4012	LDD4018	LDD4036	LDD4060
Output current	0-40A			
Output voltage	0-12VDC	0-18VDC	0-36VDC	0-60VDC
Display resolution	0.01A			
Control accuracy	0.01A			
Noise ripple	<0.01A			
General				
Operating temperature	10-40 °C, non-condensing			
Power requirement	220VAC or 110VAC			
Body dimension	434x403x178 mm			
Control panel dimension	482x180x2 mm			
Weight	20kg			

* Other voltage & current levels available upon request.

** TE cooler controller can be separately provided according to customer's requirements on the voltage and current.