

LDD-14pin-2A

All-in-one Laser Diode Driver



Compact unit for driving/controlling Laser Diodes, SLDs and SOAs:

- Self-contained enclosure combining and incorporating:
 - Device current driver (2A)
 - Device TEC driver (3A)
 - 14-pin butterfly device mount
 - Control electronics and firmware
- No laser-controller and/or TEC cables required
- External modulation capability, USB interface and control application
- Exceptional convenience, design and engineering

Specification

DATE: 27 August 2014

SPECIFICATIONS						
Parameters	Symb.	Min.	Typ.	Max.	Unit	
Control current range ¹	I	0.06		2.0	A	
Current limit ¹	I _{lim}	0.2		2.0	A	
Current reading resolution	I _{res}	2.0			mA	
Compliance voltage	V _f			4.8	V	
Photodiode current range ¹		Five ranges from 5 to 5000				μA
Maximum TEC current (constant regime)	I _{TEC}			3.0	A	
Maximum TEC current (transient regime)				4.0	A	
TEC current limit ¹	I _{TEC lim}	0.4		4.0	A	
Modes of operation		(a) Constant average current (b) Constant average output power (c) External modulation				
Bandwidth for sinusoidal modulation @3dB	f _{mod}			500	kHz	
Temperature control loop parameters ¹ Proportional - K _p , and Integral - T _i		3 ranges				
External power supply		+5 VDC, 5A (included)				
Power consumption	P			25	W	
Dimensions (WxDxH)		135 x 200 x 54				mm
Computer controlled operation	– via provided software control application (Windows/Linux)					
Stand-alone operation	– via built-in keypad and display					
Built-in USB port	– required for initial configuration and computer controlled operation					

¹ User configurable via Software Control Application (GUI).