



Koheron CTL200-0 is a digital low-noise laser diode driver combined with a TEC controller. It drives up to 600 mA laser current with a compliance voltage up to 3.2 V. It is the screw terminal version of the [CTL200 digital butterfly laser diode controller](#).

Specifications

	B-200	B-400	B-600
Current driver			
Laser current	5 mA to 225 mA	10 mA to 450 mA	15 mA to 675 mA
Laser current resolution	5 μ A	10 μ A	15 μ A
Compliance voltage	3.3 V	3.3 V	3.2 V
RMS noise (10 Hz to 1 MHz)	220 nA _{rms}	430 nA _{rms}	650 nA _{rms}
Current noise density (1 kHz)	230 pA/ $\sqrt{\text{Hz}}$	450 pA/ $\sqrt{\text{Hz}}$	670 pA/ $\sqrt{\text{Hz}}$
1/f corner noise	100 Hz	100 Hz	100 Hz
Temperature coefficient	35 ppm/ $^{\circ}\text{C}$	35 ppm/ $^{\circ}\text{C}$	35 ppm/ $^{\circ}\text{C}$
DC modulation			
Modulation gain (L setting)	250 μ A/V	500 μ A/V	750 μ A/V
Modulation gain (M setting)	2.5 mA/V	5 mA/V	7.5 mA/V
Modulation gain (H setting)	25 mA/V	50 mA/V	75 mA/V
3 dB modulation bandwidth	10 MHz	10 MHz	10 MHz
Modulation input impedance	50 Ω	50 Ω	50 Ω
Modulation input range	± 1 V	± 1 V	± 1 V
TEC controller			
Maximum current	1.15 A	1.15 A	1.15 A
Compliance voltage	-3 V to 3 V	-3 V to 3 V	-3 V to 3 V
Temperature stability	0.002 $^{\circ}\text{C}/^{\circ}\text{C}$	0.002 $^{\circ}\text{C}/^{\circ}\text{C}$	0.002 $^{\circ}\text{C}/^{\circ}\text{C}$
Laser power monitor			
Photodiode current	0 mA to 2.5 mA	0 mA to 2.5 mA	0 mA to 2.5 mA
Other			
Outside dimensions	58 mm x 100 mm x 15 mm	58 mm x 100 mm x 15 mm	58 mm x 100 mm x 15 mm
Weight	38 g	38 g	38 g
Supply voltage	7.5 V to 12.5 V	7.5 V to 12.5 V	7.5 V to 12.5 V
Operating temperature	0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$	0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$	0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$
Compatible lasers	Floating diodes	Floating diodes	Floating diodes

Ordering codes

PRODUCT NUMBER	ATTRIBUTE
CTL200-0-B-200	Laser current 200 mA
CTL200-0-B-400	Laser current 400 mA
CTL200-0-B-600	Laser current 600 mA