



MBH-Series Benchtop Laser Diode Controllers



LASER DIODE DRIVER CONTROLLER

- ♦ Three Models Available:
 - 15 Amp, 10 Volt (MBH-1510)
 - 30 Amp, 10 Volt (MBH-3010)
 - 12 Amp, 40 Volt (MBH-1240)
- ♦ Fast Crowbar Circuit Protection
- ♦ Soft-Start Current Ramp, Current Limit, Reverse Voltage Protection
- NTC Thermistor Input for Laser Over-Temperature Fast Shut-Down
- ♦ GUI Control Software Included

Semiconductor Laser Sources and Control Instruments

Precision Benchtop Laser Diode Controller

The MBH-Series are precision high power laser diode drivers designed and optimized for driving high power pump laser diodes. The high compliance voltage range multi-single chip emitters or high power LED arrays. These drivers are delivered in three different models, all providing high current and high voltage for a wide range of applications. They can be set to run in CW mode or QCW mode.

Enchanced Protection for High Power Pump Laser Diodes

These drivers are designed with extensive safety features to protect your laser diode:

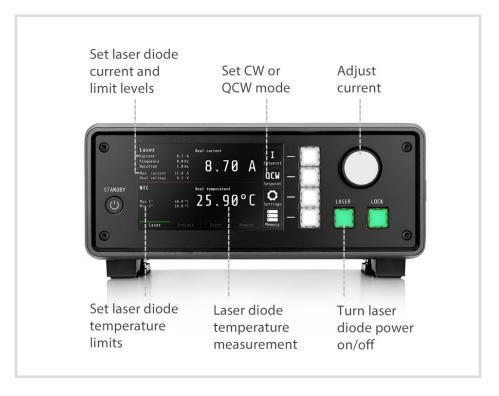
- NTC thermistor input to prevent laser over-heat damage
- Soft-start current ramp
- Over-current protection and fast-shutdown
- Reverse current protection
- ESD and transient protection
- Programmable current limit
- External safety interlock input

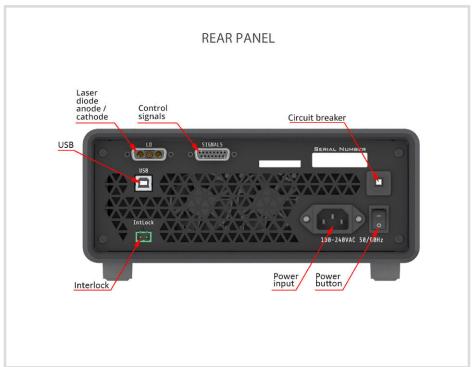
Versatile and Simple User Interface and Controls

The MBH-Series laser diode drivers are operated by an easy-to-use front panel interface. The touch-screen panel is intelligently organized, and the buttons and control knob increase operator efficiency. Up to nine user-programmed presets can be saved and easily recalled. The driver includes a USB interface and control software for simple remote control. Custom control software can easily be written following SCPI (Standard Commands for Programmable Instruments) protocol.

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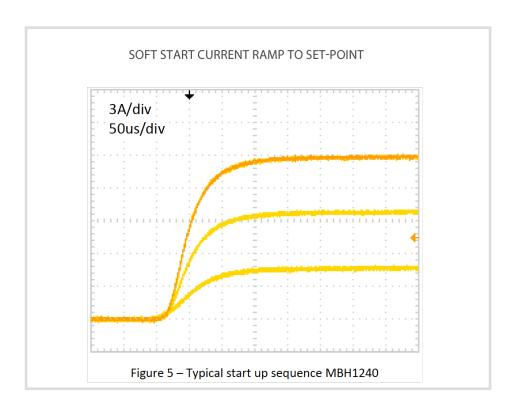


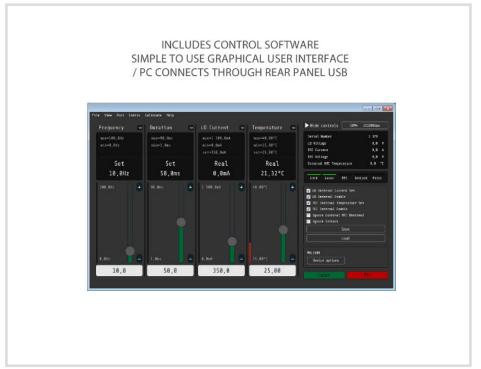


800-887-5065

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MBH-1240 SPECIFICATIONS

CURRENT, VOLTAGE SPECIFICATIONS

- Output Current Range (CW): 0 12 Amps
- Output Voltage Range (CW): 0.7 40 Volts
- Current Setpoint Resolution: 0.01 A
- Current Rise Time (lout = 7.5A): min 60µs; max 100µs
- Current Rise Time (lout = 15A): min 60µs; max 100µs
- Current Fall Time: min 30µs; max 80µs
- Current Stability: < 0.1 %
- Current Setpoint Absolute Accuracy: <1 %

MBH-1510 SPECIFICATIONS

CURRENT, VOLTAGE SPECIFICATIONS

- Output current LD (I): 0 15 A
- Output voltage LD (V): 0.7 10 V
- Setpoint Resolution: 0.01 A
- Rise Time (lout = 7.5A): min 150μs; max 500μs
- Rise Time (lout = 15A): min 140μs; max 500μs
- Fall Time: min 250μs; max 1200μs
- Current Stability: < 0.1 %
- Current Setpoint Absolute Accuracy: <1 %

MBH-3010 SPECIFICATIONS

CURRENT, VOLTAGE SPECIFICATIONS

- Output current LD (I): 0 30 A
- Output voltage LD (V): 0.7 10 V
- Setpoint Resolution: 0.01 A
- Rise Time (lout = 7.5A): min 300μs; max 700μs
- Rise Time (lout = 15A): min 300μs; max 600μs
- Fall Time: min 300µs; max 1500µs
- Current Stability: < 0.1 %
- Current Setpoint Absolute Accuracy: <1 %

MBH-SERIES GENERAL SPECIFICATIONS

LASER DIODE PROTECTION

- Soft-Start Current Ramp
- Over-Current Protection Fast Shutdown
- Reverse current protection
- Crowbar Circuit Protection
- ESD and transient protection
- External Interlock Connector
- Laser Diode Temperature Measurement with Over-Temp Shutdown

SYSTEM SPECIFICATIONS

- Universal AC Power Input: 100 ~ 240 VAC, 50/60Hz
- Air Cooled (no water)
- Dimensions: 257 x 271 x 117 mm
- Weight: 3.6 kg

USER INTERFACE

- Front Panel (Touch Screen and Buttons)
- USB with Software Included

WARRANTY PERIOD

• 1-Year Full Warranty



PRODUCT WARRANTY:

This product is sold with a full one year warranty. The warranty includes all parts and labor. It is warrantied to be free from defects in material and workmanship for a period of one year from the date of shipment. The warranty does not include damage to the product due to customer mishandling or use of the product outside of its specified maximum ratings.

INSTALLATION SUPPORT OR TECHNICAL SUPPORT FOR THIS PRODUCT:

800-887-5065 extension 1 contact@laserdiodesource.com



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