Laserglow Product Datasheet

LID-0680 Enhanced Beam Profile Diode Laser System

Laserglow Part Number: I6B100XSX



Similar Products:

For information about the other lasers in this product family visit:

http://www.laserglow.com/I6B

Ordering:

Order Online Now or Request Quote:

http://www.laserglow.com/I6B100XSX

Series Specifications:

Nominal Wavelength	680 nm
Output Type	CW
Laser Source Type	Diode

Overview:

The LID-0680 Series of Enhanced Profile Collimated Diode (Semiconductor) Lasers are ideal for applications requiring both a wavelength around 680 nm and a good beam profile typically unavailable in a diode laser. This series is available in a range of output power levels of 5 mW to >200 mW with a high level of long-term output power stability and long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for various scientific applications involving biological research as well as PIV, spectral analysis, and a broad spectrum of other applications. The driver is available as a complete FDA-compliant system or as an O.E.M. component with significantly reduced dimensions.

Available with TTL and analog modulation as well as a wide array of output power and stability levels, Laserglow products are currently being used by some of the World's top universities and other prominent research facilities.

Key Features:

- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient Diode Laser technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- FDA CDRH Compliant Class IIIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- BNC Connector (LabSpec models only)

- Keys, Safety Interlock
- Hard-shell Carrying Case

Specifications:

This spec sheet has been generated specifically for part number I6B100XSX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to I6B100XSX have been highlighted below in **red + bold**.

Output Power (mW)	<5, >50, **>100**, >200
Output Power Stability (%RMS/4h)	<1, <3, <5, **<10**
Wavelength Tolerance (+/- nm)	**5**
Divergence (mrad, full angle)	**<8**
Beam Dimensions (mm, $1/e^2$)	**2**
Warm-up Time (minutes)	**5**
Operating Temperature Range (°C)	**10 to 35**
Max. Analog Modulation Freq. (Hz)	30000
Max. TTL Modulation Freq. (Hz)	**10000**, 30000
Modulation Input Signal	**0-5 VDC**
Max. Power Input Duty Cycle	**100%**
Standard Warranty (months)	**12**
MTTF (operational hours)	**10000**
Weight of Product or Laser Head (kg)	**0.6**
Beam Height from Base Plate (mm)	**24.8**
Dimensions of Product or Laser Head (mm)	**140.7 (l) x 73 (w) x 46.2 (h)**

CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.
Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

Power Supply Options:

These lasers are available with several different power supply options. The model that you have selected is highlighted below, and any other options are shown for easy reference.

	Power Supply Type:	**FR**
FDA-Compliant LabSpec 	Input Power	85v to 264v
	Power Supply Weight (kg)	1.5
	Dimensions (mm)	154 (l) x 155 (w) x 95 (h)

	Power Supply Type:	**SR**
FDA-Compliant Standard 	Input Power	**85v to 264v**
	Power Supply Weight (kg)	**1.2**
	Dimensions (mm)	**133 (l) x 130 (w) x 65 (h)**

*Power supply may not be exactly as shown, see dimensional drawings on next 2 pages.

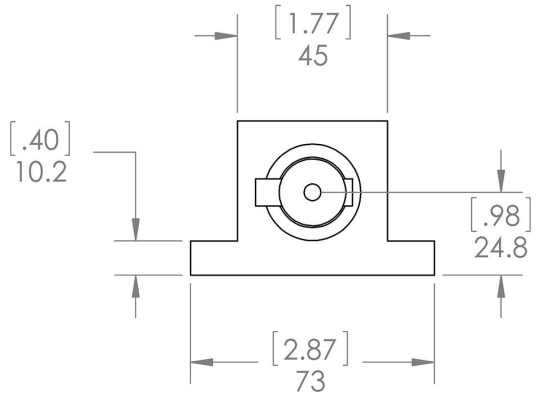
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

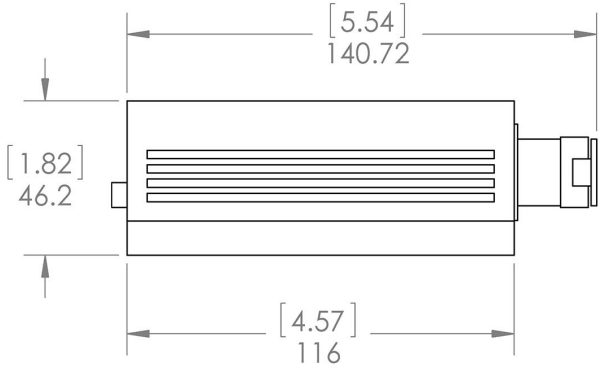
Regulatory Classification:

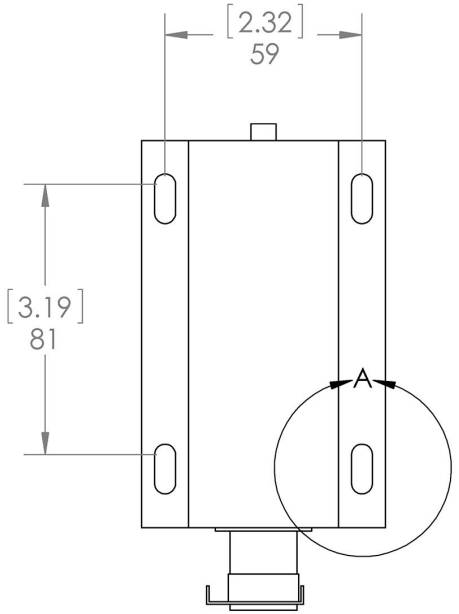
The model you have selected (I6B100XSX) requires the following safety label(s):

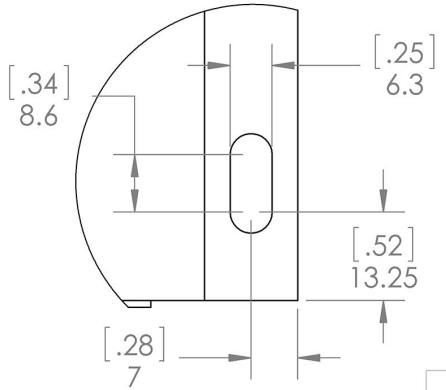


Dimensional Drawing - Laser Form Factor: R:

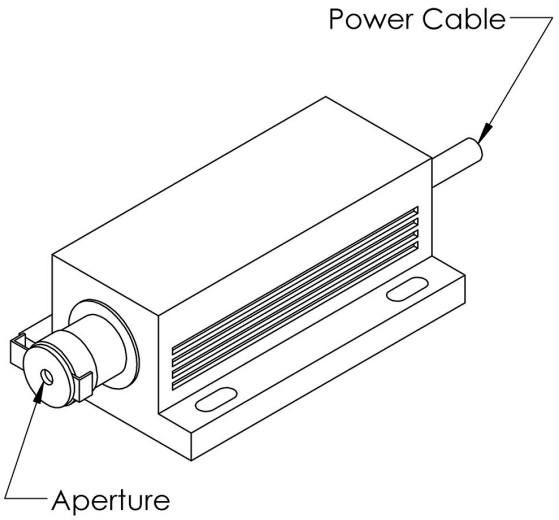








DETAIL A
SCALE 1 : 1



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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM[INCH]
TOLERANCES: +/- 0.75 MM

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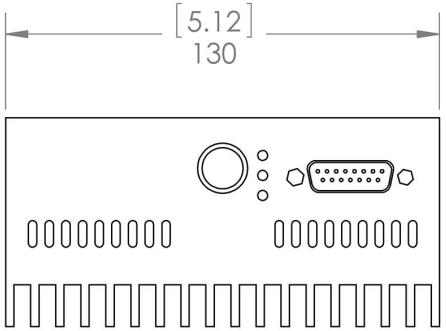
Lab/OEM M/R Housing

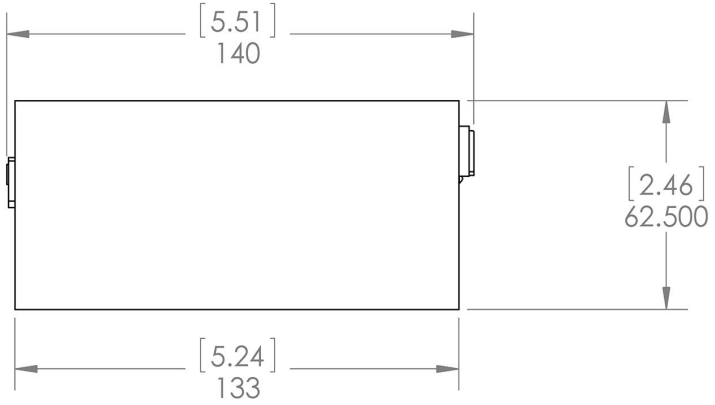
REV 1

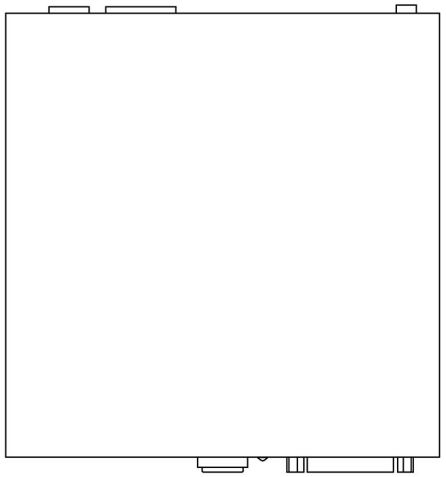
SCALE: 1:2

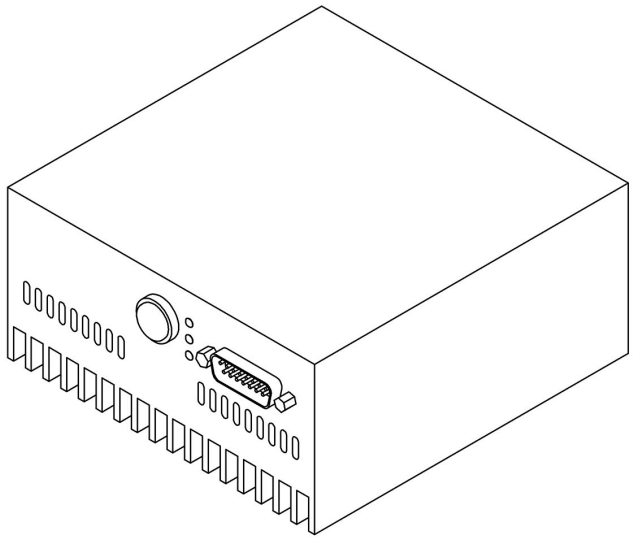
SHEET 1 OF 1

Dimensional Drawing - Power Supply Form Factor: SR:









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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM[INCH]
TOLERANCES: +/- 0.75 MM

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TITLE:

Power Supply SM/SR

REV 1

SCALE: 1:2

SHEET 1 OF 1

Accessories:

The most popular accessories for model I6B100XSX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 AGF6605XX	LSG-660-NF-5 Fit-Over Safety Goggles 660nm Output: OD 5+ at 600-694 nm CE Certified Full Details: www.laserglow.com/AGF	
 ACALBMXXX	Carrying Case-102 Holds Lab/OEM M, R and S size, standard or LabSpec laser Full Details: www.laserglow.com/ACA	Included With Laser

FOR MORE INFORMATION PLEASE CONTACT:

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