Laserglow Product Datasheet

LSS-0561 Single-Longitudinal-Mode DPSS Laser System

Laserglow Part Number: S560101FX

This model is listed as **inactive** in our product database. Stock may be limited, and availability is subject to change without notice.



Similar Products:

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

http://www.laserglow.com/S56

Ordering:

Order Online Now or Request Quote:

http://www.laserglow.com/S560101FX

Series Specifications:

Nominal Wavelength	561 nm
Output Type	CW
Laser Source Type	DPSS

Overview:

The LSS-561 Series of Single-Frequency, Single Longitudinal Mode Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring extremely long temporal coherence and an extremely narrow spectral linewidth. This series of 561 nm SLM lasers are available from 5 mW to >50 mW and maintain 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 purposes such as holography / interferometry, biological experiments, communications research, 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.

Laserglow products are currently being used by some of the World's top universities and other prominent research facilities.

Key Features:

- Spectral linewidth <0.000001 nm
- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient DPSS 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 S560101FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to S560101FX have been highlighted below in **red + bold**.

Output Power (mW)	**>10**, >30, >50, >80, >100, >150
Output Power Stability (%RMS/4h)	**<1**, <3, <5
Central Wavelength (nm)	**561.08**
Wavelength Tolerance (+/- nm)	**1**
Divergence (mrad, full angle)	**<1.2**
Beam Dimensions (mm, 1/e²)	**2**
Warm-up Time (minutes)	**10**
Optical Noise Amplitude (%RMS @ 20 Hz - 20 MHz)	**<0.5**
Spectral Linewidth (nm)	**<7.0E-6**
M^2	**<1.2**
Polarization Ratio	**>100**
Coherence Length (m)	**>50**
Beam Pointing Stability (mrad)	**<0.05**
Operating Temperature Range (°C)	**10 to 35**
Max. Power Input Duty Cycle	**100%**
Standard Warranty (months)	**12**
MTTF (operational hours)	**10000**
Weight of Product or Laser Head (kg)	**2**
Beam Height from Base Plate (mm)	**27.4**
Dimensions of Product or Laser Head (mm)	**197 (l) x 70 (w) x 50 (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:	**SO**
FDA-Compliant Standard 	Input Power	**85v to 264v**
	Power Supply Weight (kg)	**2.3**
	Dimensions (mm)	**238 (l) x 146 (w) x 102 (h)**

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

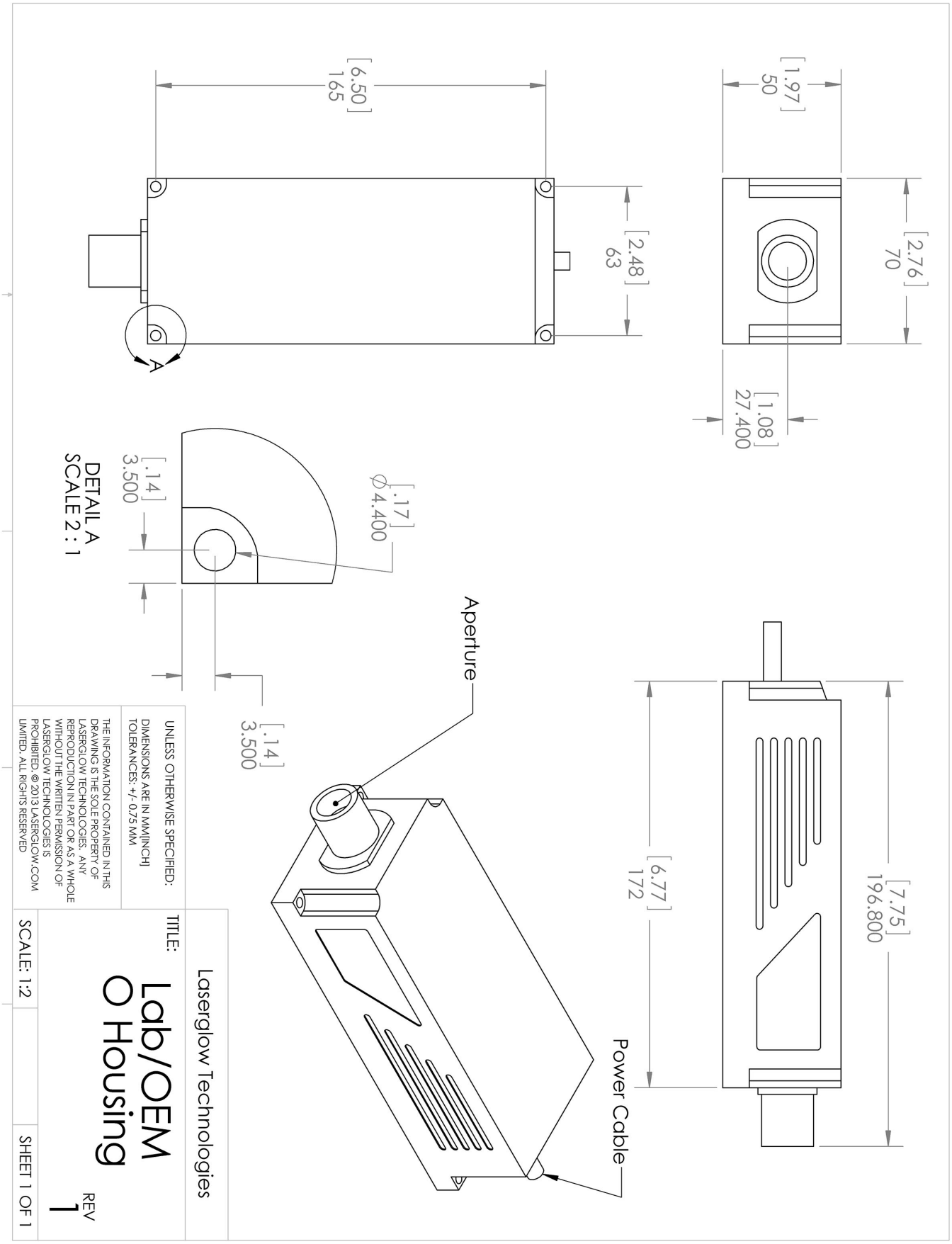
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

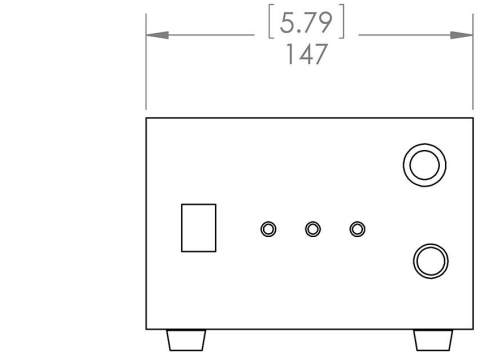
The model you have selected (S560101FX) requires the following safety label(s):

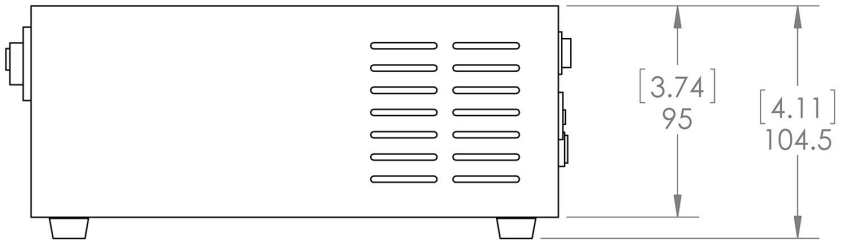


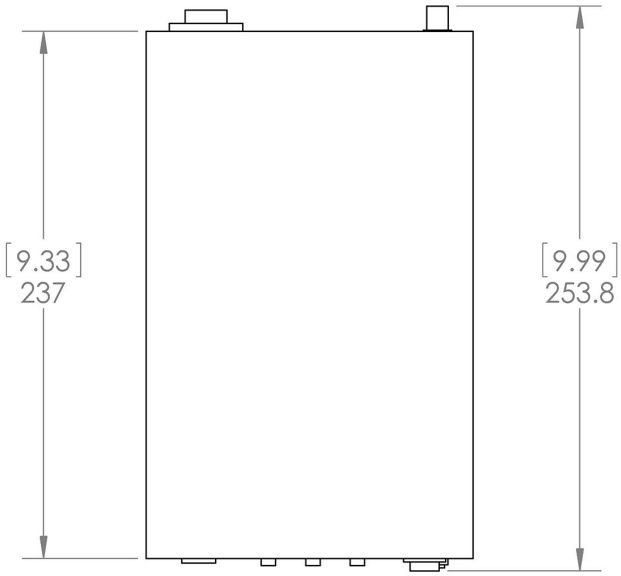
Dimensional Drawing - Laser Form Factor: O:

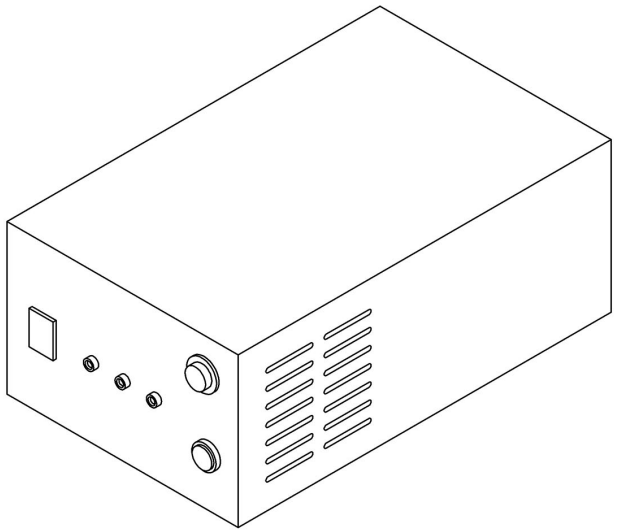


Dimensional Drawing - Power Supply Form Factor: SO:









Laserglow Technologies

UNLESS OTHERWISE SPECIFIED:

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

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TITLE:

Power Supply SA/SO/ST/SV

REV 1

SCALE: 1:3

SHEET 1 OF 1

Accessories:

The most popular accessories for model S560101FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ACALBHFXX	Carrying Case-103 Holds Lab/OEM H, F and O size Standard/LabSpec laser Full Details: www.laserglow.com/ACA	Included With Laser
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: www.laserglow.com/AFF	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: www.laserglow.com/AFS	
 ACFVISHXA	FC/PC Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
 ACSVISHXA	SMA-905 Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACS	
 AGF5565XX	LSG-556-NF-5 Fit-Over Safety Goggles 556nm Output: OD 5+ at 190-579 nm CE Certified Full Details: www.laserglow.com/AGF	
 TBK	Complete optics kits with breadboard mounting hardware. External modulators, variable attenuators, free-space fiber launch systems Full Details: www.laserglow.com/TBK	

FOR MORE INFORMATION PLEASE CONTACT:

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Please confirm critical specifications with our staff prior to ordering.