

Laserglow Product Datasheet

LLS-1122 Low-Noise DPSS Laser System

Laserglow Part Number:
LB22003FX



Similar Products:

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

<http://www.laserglow.com/LB2>

Ordering:

Order Online Now or Request Quote:

<http://www.laserglow.com/LB22003FX>

Series Specifications:

Nominal Wavelength	1122 nm
Output Type	CW
Laser Source Type	DPSS



Overview:

The LLS-1122 Series of Low-Noise Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring less than 1% noise and output power levels from 50 mW to 300 mW. These 1122 nm lasers 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 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:

- 1% optical noise (20 Hz-20 MHz)
- 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 IIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- Keys, Safety Interlock

- Hard-shell Carrying Case

Specifications:

This spec sheet has been generated specifically for part number LB22003FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to LB22003FX have been highlighted below in **red + bold**.


Output Power (mW)	>50, >100, >200 , >300
Output Power Stability (%RMS/4h)	<3 , <5
Wavelength Tolerance (+/- nm)	3
Divergence (mrad, full angle)	<1.5
Beam Dimensions (mm, 1/e ²)	2
Warm-up Time (minutes)	10
Optical Noise Amplitude (%RMS @ 20 Hz - 20 MHz)	<1
M ²	<1.5
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)	0.6
Beam Height from Base Plate (mm)	24.8
Dimensions of Product or Laser Head (mm)	140.8 (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:	SM
	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.

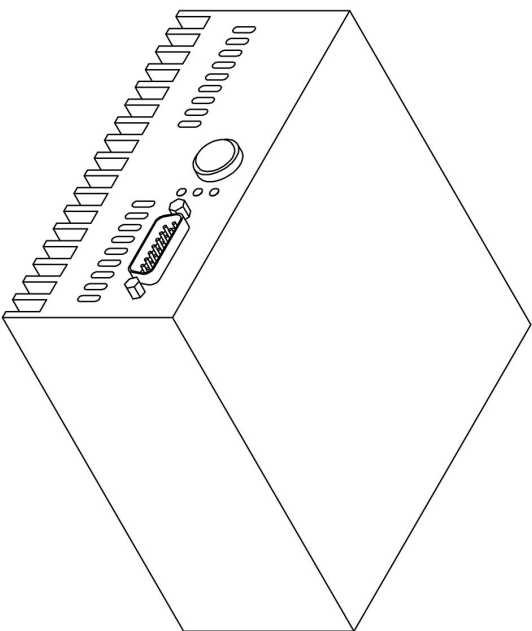
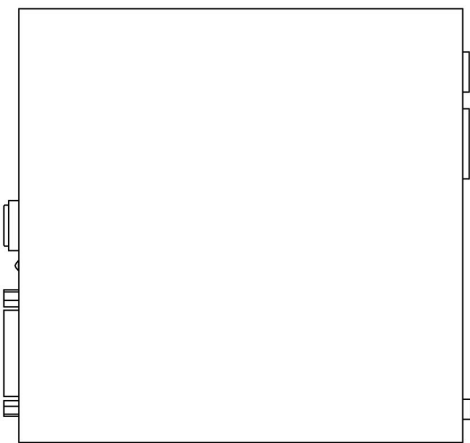
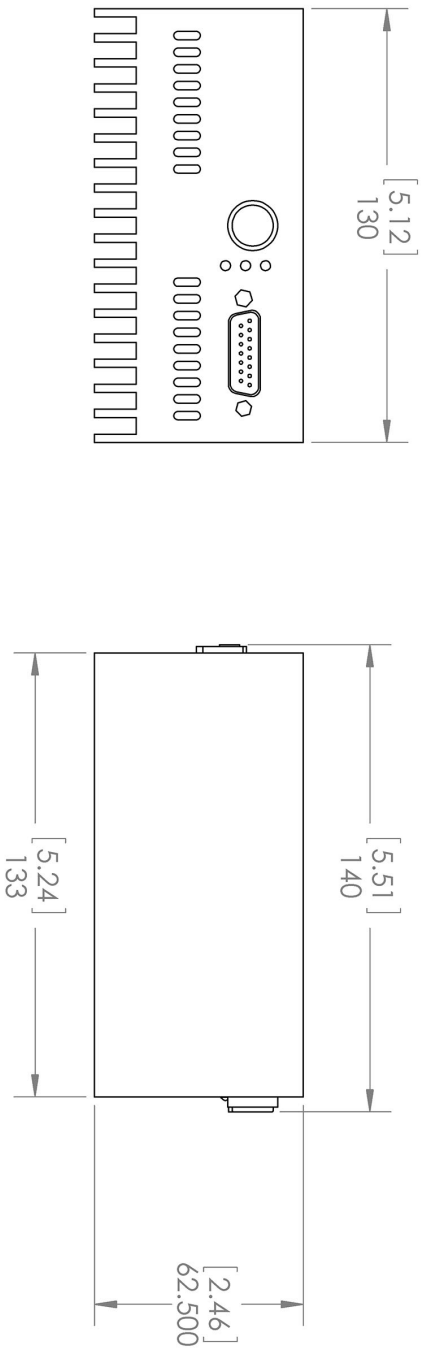
Regulatory Classification:

The model you have selected (LB22003FX) requires the following safety label(s):












Dimensional Drawing - Power Supply Form Factor: SM:



Laserglow Technologies	
TITLE:	
UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN MM(INCH)	
TOLERANCES: +/- 0.75 MM	
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Power Supply	REV 1
SM/SR	
SCALE: 1:2	SHEET 1 OF 1

Accessories:

The most popular accessories for model LB22003FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ACFMIRHXX	FC/PC Fiber Coupler/Collimator for IR wavelengths (1000 to 1300 nm) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
 ACSMIRHXX	SMA-905 Fiber Coupler/Collimator for IR wavelengths (1000 to 1300 nm) 11mm diameter input lens Full Details: www.laserglow.com/ACS	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: www.laserglow.com/AFS	
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: www.laserglow.com/AFF	
 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
 AGFMIR4XX	LSG-MIR-NF-4 Fit-Over Safety Goggles Mid-IR Range Output: OD 4+ at 945-10600 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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E&OE: Data included in this sheet may be subject to change without notice.

Please confirm critical specifications with our staff prior to ordering.