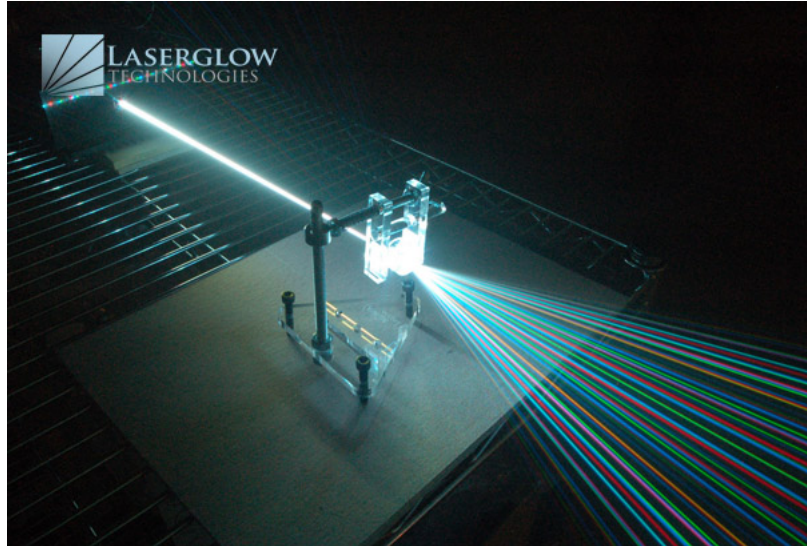


Laserglow Product Datasheet

LMS-RGB1 Combined Triple-Wavelength Laser System

Series Specifications:

Nominal Wavelength	473 nm, 532 nm, 671 nm
Output Type	CW
Laser Source Type	DPSS



Overview:

The LMS-RGB1 Series of Combined-wavelength Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring red, green, and blue wavelengths to be emitted from a single laser module- simultaneously or individually. These RGB laser systems are available in up to 500 mW combined output 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 laser light shows (entertainment) as well as a variety of scientific applications including, PIV, Raman Spectroscopy, 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, and in 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 DPSS technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- TTL and Analog modulation (input via BNC connector) *lab-spec models only*
- Adjustable output power via lockable dial) *lab-spec models only*
- LED display showing LD current, laser cavity temperature *lab-spec models only*
- 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
- BNC Connector (LabSpec models only)
- Keys, Safety Interlock
- Hard-shell Carrying Case

Specifications:

This spec sheet has been generated specifically for part number M31-3, per your request. Each column represents the specifications of the individual component lasers that make up the multi-wavelength system.


Component Laser Wavelength (nm)	473	532	671
Output Power (mW)	>200	>200	>200
Output Power Stability (%RMS/4h)	<3	<3	<3
Divergence (mrad, full angle)	<1.5	<1.5	<1.5
Beam Dimensions (mm, 1/e ²)	3	2	1.2
M ²	<2	<1.2	<1.2
Max. Analog Modulation Freq. (Hz)	30000	30000	30000
Max. TTL Modulation Freq. (Hz)	30000	30000	30000
Modulation Input Signal	0-5 VDC	0-5 VDC	0-5 VDC
Total Power Consumption (W)	80	32	35
Max. Power Input Duty Cycle	100%	100%	100%
Standard Warranty (months)	12	12	12
MTTF (operational hours)	10000	10000	10000

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.

<div>FDA-Compliant LabSpec</div> <div></div>	Power Supply Type:	FF	FM
	Input Power	85v to 264v	85v to 264v
	Power Supply Weight (kg)	2.6	1.5
	Dimensions (mm)	268 (l) x 145 (w) x 106 (h)	154 (l) x 155 (w) x 95 (h)

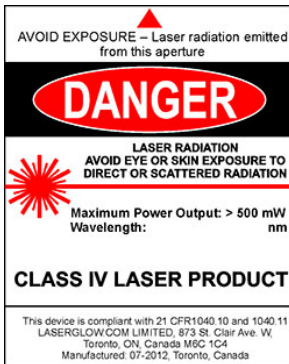
Multi-wavelength lasers include a separate power supply for each wavelength. In some cases the power supply for each wavelength may be slightly different in size. If the dimensions of the power supply are a concern for you please inquire with us before placing your order.

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

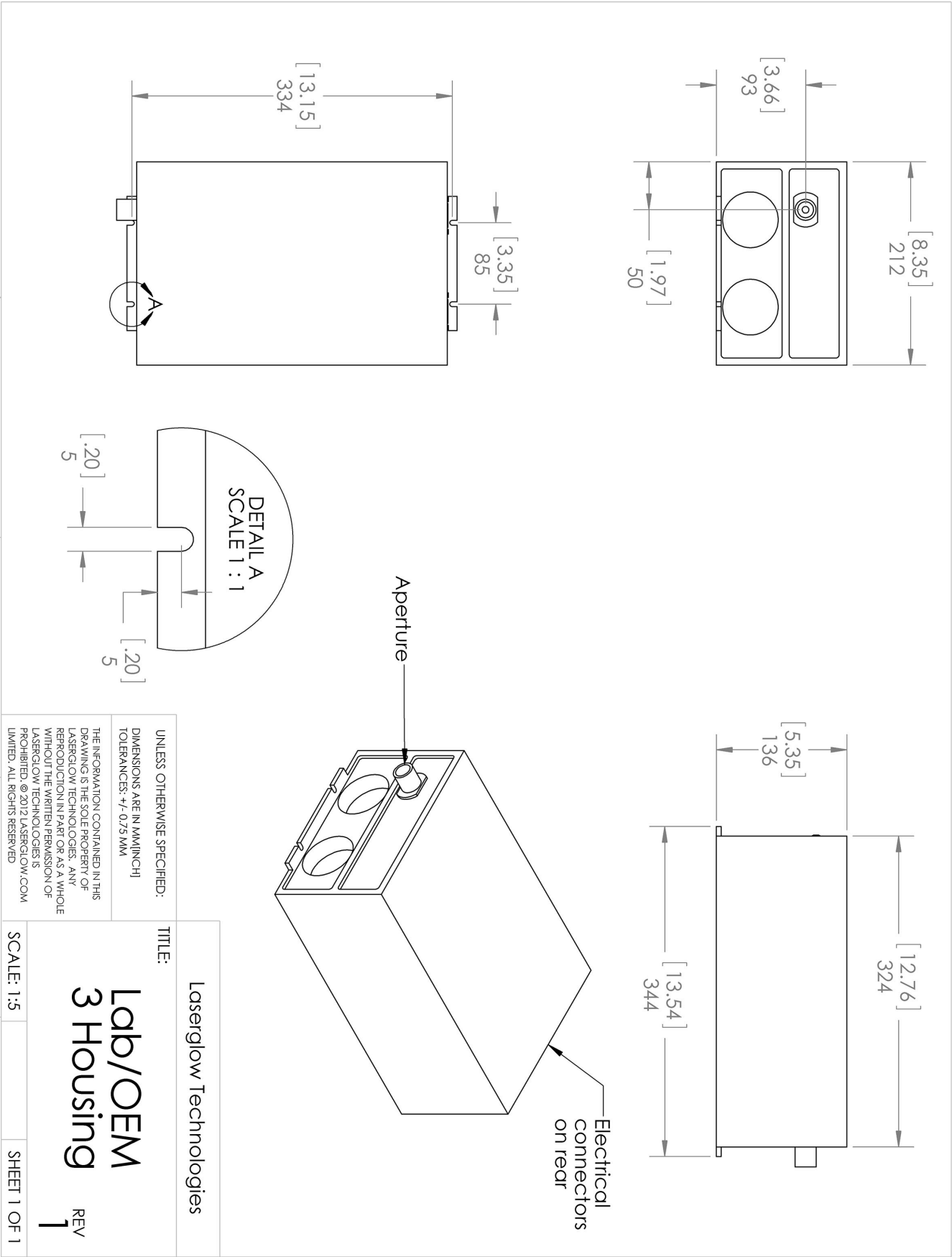
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

The model you have selected (M31-3) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: 3:



Dimensional Drawing - Power Supply Form Factor: FM:



Laserglow Technologies

TITLE:

Power Supply
FM/FR

REV
1

SCALE: 1:3

SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM(INCH)
TOLERANCES: +/- 0.75 MM

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Accessories:

The most popular accessories for model M31-3 are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ACS-VISHXA	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	
 ACF-VISHXA	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	
 ACALB237X	Carrying Case-107 Holds Lab/OEM 2/3 wavelength Labspec laser Full Details: www.laserglow.com/ACA	Included With Laser
 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	

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.