

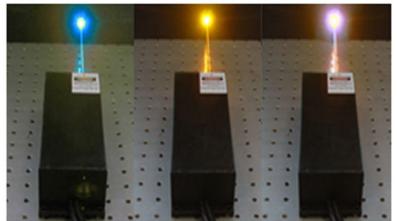
Arktis Laser Product Datasheet

LMS-BY01 Combined Dual-Wavelength Laser System





DPSS



Overview:

Laser Source Type

The LMS-BY01 Series of Combined-wavelength Diode-Pumped Solid-State (DPSS) Lasers are specifically designed for the field of optogenetics research. This blue/yellow laser system is available with 80 mW combined output, and each wavelength can be modulated at speeds of up to 30 kHz. The wavelengths of this laser are specifically chosen for use with the microbial opsins most commonly used in optogenetics research. (Channelrhodopsin, Halorhodopsin, etc.)

The driver is available as a complete FDA-compliant system or as an O.E.M. component with significantly reduced dimensions. Upon request, this laser can be coupled directly to an optical fiber, or provided with an FC/PC or SMA fiber coupler so you can use your existing optical fiber.

Key Features:

- · Specially designed for use in optogenetics research
- 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) up to 30 kHz
- Adjustable output power via lockable dial
- LED display showing LD current, laser cavity temperature
- 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 M24-3, per your request. Each column represents the specifications of the individual component lasers that make up the multi-wavelength system.

473	593.5
>50	>50
<5	<5
<1.5	<2
1.2	3
<1.2	<1.5
150	150
150	150
0-5 VDC	0-5 VDC
20	80
100%	100%
12	12
10000	10000
	>50 <5 <1.5 1.2 <1.2 150 150 0-5 VDC 20 100% 12

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:	FM	FF
FDA-Compliant LabSpec	Input Power	85v to 264v	85v to 264v
	Power Supply Weight (kg)	1.5	2.6
	Dimensions (mm)	154 (I) x 155 (w) x 95 (h)	268 (I) x 145 (w) x 106 (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.

Regulatory Classification:

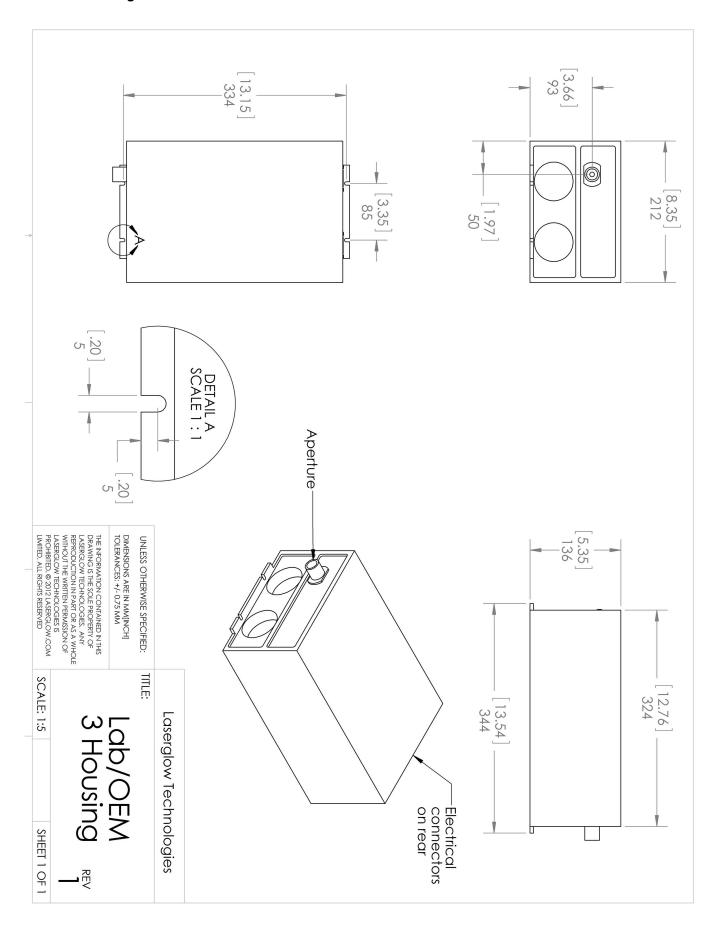
The model you have selected (M24-3) requires the following safety label(s):



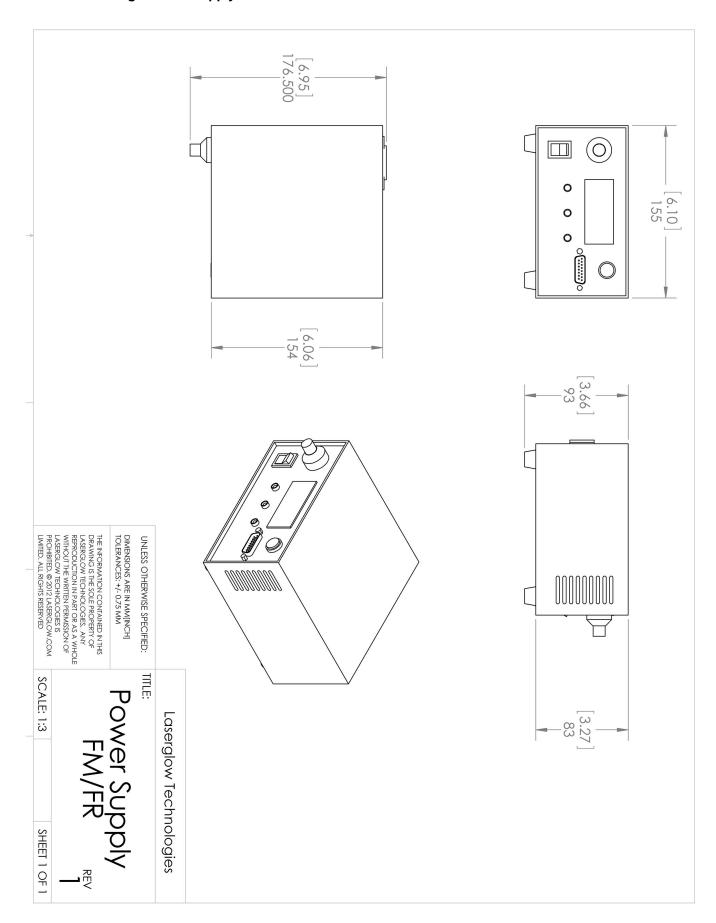
^{*}Power supply may not be exactly as shown, see dimensional drawings on next 2 pages.

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

Dimensional Drawing - Laser Form Factor: 3:



Dimensional Drawing - Power Supply Form Factor: FM:



Accessories:

The most popular accessories for model M24-3 are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
ACSVISHXA	SMA-905 Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: www.arktislaser.com/ACS	
ACFVISHXA	FC/PC Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: www.arktislaser.com/ACF	
ACALB237X	Carrying Case-107 Holds Lab/OEM 2/3 wavelength Labspec laser Full Details: www.arktislaser.com/ACA	Included With Laser
AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: www.arktislaser.com/AFS	
AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: www.arktislaser.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.