

Laserglow Product Datasheet

LLS-0527 Low-Noise DPSS Laser System

Image
Coming
Soon!

Series Specifications:

Nominal Wavelength	526.5 nm
Output Type	CW
Laser Source Type	DPSS

Overview:

The LLS-0527 Series of Low-Noise Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring less than 1% noise and output power levels from 5 mW to 300 mW. These 526.5 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 fluorescence excitation, 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.

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 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
- Keys, Safety Interlock
- Hard-shell Carrying Case

Specifications:

This spec sheet has been generated specifically for part number L5A-M, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to L5A-M have been highlighted below in **red + bold**.


Output Power (mW)	>5, >10, >20, >50, >80, >100	>200, >300
Output Power Stability (%RMS/4h)	<2, <3, <5	<3, <5
Central Wavelength (nm)	526.5	526.5
Wavelength Tolerance (+/- nm)	1	1
Divergence (mrad, full angle)	<1.5	<1.5
Beam Dimensions (mm, 1/e ²)	1.2	2
Warm-up Time (minutes)	10	10
Optical Noise Amplitude (%RMS @ 20 Hz - 20 MHz)	<1	<1
M ²	<1.2	<1.5
Polarization Ratio	>100	>100
Beam Pointing Stability (mrad)	<0.05	<0.05
Operating Temperature Range (°C)	10 to 35	10 to 35
Total Power Consumption (W)	35	35
Max. Power Input Duty Cycle	100%	100%
Standard Warranty (months)	12	12
MTTF (operational hours)	10000	10000
Weight of Product or Laser Head (kg)	0.6	2
Beam Height from Base Plate (mm)	24.8	27.4
Dimensions of Product or Laser Head (mm)	140.8 (l) x 73 (w) x 46.2 (h)	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.

<div>FDA-Compliant LabSpec</div> <div></div>	Power Supply Type:	FM	FO
	Input Power	85v to 264v	85v to 264v
	Power Supply Weight (kg)	1.5	2.6
	Dimensions (mm)	154 (l) x 155 (w) x 95 (h)	268 (l) x 145 (w) x 106 (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 (L5A-M) requires the following safety label(s):





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 L5A-M are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 AGF5327XX	LSG-532-NF-7 Fit-Over Safety Goggles 532nm Output: OD 7+ at 190-532 nm CE Certified Full Details: www.laserglow.com/AGF	
 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	
 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	
 TBK	Complete optics kits with breadboard mounting hardware. External modulators, variable attenuators, free-space fiber launch systems Full Details: www.laserglow.com/TBK	
 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:

LASERGLOW TECHNOLOGIES
99 Ingram Dr. Unit B, North York, ON, Canada M6M2L7
Tel. (416) 729-7976 Fax (716) 322-3510
sales@laserglow.com www.laserglow.com

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Please confirm critical specifications with our staff prior to ordering.