

Laserglow Product Datasheet

LSS-1064 Single-Longitudinal-Mode DPSS Laser System

Laserglow Part Number: SA62005FX

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/SA6

Ordering:

Order Online Now or Request Quote:

http://www.laserglow.com/SA62005FX

Series Specifications:

Nominal Wavelength	1064 nm
Output Type	CW
Laser Source Type	DPSS



Overview:

The LSS-1064 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 1064 nm SLM lasers are available from 50 mW to 10 W 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:

- Air cooled no need for water cooling or external chiller
- Spectral linewidth 0.000001 nm
- · 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 SA62005FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to SA62005FX have been highlighted below in **red + bold**.

Output Power (mW)	>50, >100, >200 , >300, >500, >800, >1000	>2000, >5000, >8000, >10000	
Output Power Stability (%RMS/4h)	<1, <3, <5	<1, <3, <5	
Central Wavelength (nm)	1063.2	1063.2	
Wavelength Tolerance (+/- nm)	1	1	
Divergence (mrad, full angle)	<1.5	<1.5	
Beam Dimensions (mm, 1/e²)	2	1.5	
Warm-up Time (minutes)	10	10	
Optical Noise Amplitude (%RMS @ 20 Hz - 20 MHz)	<0.5	<0.5	
Spectral Linewidth (nm)	<9.5E-6	<1.0E-5	
M²	<1.5	<1.2	
Polarization Ratio	>100	>100	
Coherence Length (m)	>120	>100	
Beam Pointing Stability (mrad)	<0.05	<0.05	
Operating Temperature Range (°C)	15 to 35	10 to 35	
Total Power Consumption (W)	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		
Beam Height from Base Plate (mm)	24.8	58	
Dimensions of Product or Laser Head (mm)	140.8 (l) x 73 (w) x 46.2 (h)	427 (I) x 190 (w) x 83 (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	sw
FDA-Compliant Standard	Input Power	85v to 264v	85v to 264v
	Power Supply Weight (kg)	1.2	5.1
	Dimensions (mm)	133 (l) x 130 (w) x 65 (h)	307 (l) x 168 (w) x 123 (h)

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

Regulatory Classification:

The model you have selected (SA62005FX) requires the following safety label(s):



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

Dimensional Drawing - Laser Form Factor: M:



Dimensional Drawing - Power Supply Form Factor: SM:



Accessories:

The most popular accessories for model SA62005FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
AGFA647XX	LSG-1064-NF-7 Fit-Over Safety Goggles 1064nm Output: OD 7+ at 950-1070 nm CE Certified Full Details: www.laserglow.com/AGF	
ACFMIRHXA	FC/PC Fiber Coupler/Collimator for IR wavelengths (1000 to 1300 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
ACSMIRHXA	SMA-905 Fiber Coupler/Collimator for IR wavelengths (1000 to 1300 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACS	
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
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	
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.