

## Laserglow Product Datasheet

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### LSS-0556 Single-Longitudinal- Mode DPSS Laser System

Image  
Coming  
Soon!

#### Series Specifications:

Nominal Wavelength	556 nm
Output Type	CW
Laser Source Type	DPSS

#### Overview:

## Specifications:

This spec sheet has been generated specifically for part number S55-O, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to S55-O have been highlighted below in **red + bold**.


Output Power (mW)	<b>&gt;5, &gt;10, &gt;20, &gt;30, &gt;50, &gt;80, &gt;100, &gt;200</b>
Output Power Stability (%RMS/4h)	<b>&lt;1, &lt;2, &lt;3, &lt;5</b>
Central Wavelength (nm)	<b>556.3</b>
Wavelength Tolerance (+/- nm)	<b>1</b>
Divergence (mrad, full angle)	<b>&lt;1.2</b>
Beam Dimensions (mm, 1/e <sup>2</sup> )	<b>2</b>
Warm-up Time (minutes)	<b>10</b>
Optical Noise Amplitude (%RMS @ 20 Hz - 20 MHz)	<b>&lt;1</b>
Spectral Linewidth (nm)	<b>&lt;1.0E-5</b>
M <sup>2</sup>	<b>&lt;1.2</b>
Polarization Ratio	<b>&gt;100</b>
Coherence Length (m)	<b>&gt;50</b>
Beam Pointing Stability (mrad)	<b>&lt;0.05</b>
Operating Temperature Range (°C)	<b>15 to 35</b>
Total Power Consumption (W)	<b>22</b>
Max. Power Input Duty Cycle	<b>100%</b>
Standard Warranty (months)	<b>12</b>
MTTF (operational hours)	<b>10000</b>
Weight of Product or Laser Head (kg)	<b>2</b>
Beam Height from Base Plate (mm)	<b>27.4</b>
Dimensions of Product or Laser Head (mm)	<b>197 (l) x 70 (w) x 50 (h)</b>

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.

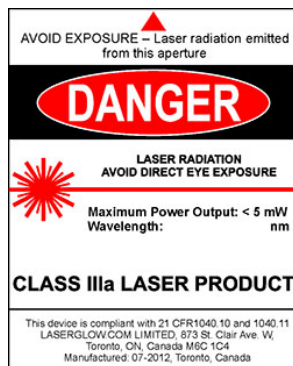
<div>FDA-Compliant Standard</div> <div></div>	Power Supply Type:	SO
	Input Power	85v to 264v
	Power Supply Weight (kg)	2.3
	Dimensions (mm)	238 (l) x 146 (w) x 102 (h)

\*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 (S55-O) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: O:










Dimensional Drawing - Power Supply Form Factor: SO:



## Accessories:

The most popular accessories for model S55-O are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 AGF5565XX	LSG-556-NF-5 Fit-Over Safety Goggles 556nm Output: OD 5+ at 190-579 nm CE Certified Full Details: <a href="http://www.laserglow.com/AGF">www.laserglow.com/AGF</a>	
 ACFVISHXA	FC/PC Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: <a href="http://www.laserglow.com/ACF">www.laserglow.com/ACF</a>	
 ACSVISHXA	SMA-905 Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: <a href="http://www.laserglow.com/ACS">www.laserglow.com/ACS</a>	
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: <a href="http://www.laserglow.com/AFF">www.laserglow.com/AFF</a>	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: <a href="http://www.laserglow.com/AFS">www.laserglow.com/AFS</a>	
 TBK	Complete optics kits with breadboard mounting hardware. External modulators, variable attenuators, free-space fiber launch systems Full Details: <a href="http://www.laserglow.com/TBK">www.laserglow.com/TBK</a>	
 ACALBHFXX	Carrying Case-103 Holds Lab/OEM H, F and O size Standard/LabSpec laser Full Details: <a href="http://www.laserglow.com/ACA">www.laserglow.com/ACA</a>	Included With Laser

## 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.