

## Laserglow Product Datasheet

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### MSL-0527 Single-Longitudinal- Mode DPSS Laser System

Image  
Coming  
Soon!

#### Series Specifications:

|                    |          |
|--------------------|----------|
| Nominal Wavelength | 526.5 nm |
| Output Type        | CW       |
| Laser Source Type  | DPSS     |

#### Overview:

## Specifications:

This spec sheet has been generated specifically for part number S5A-M, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to S5A-M have been highlighted below in **red + bold**.


|   |   |
|---|---|
| Output Power (mW)                               | <b>&lt;5, &gt;20, &gt;30, &gt;50, &gt;80, &gt;100</b> |
| Output Power Stability (%RMS/4h)                | <b>&lt;1, &lt;2, &lt;3, &lt;5</b>                     |
| Central Wavelength (nm)                         | <b>526.5</b>  |
| Divergence (mrad, full angle)                   | <b>&lt;1.5</b>  |
| Beam Dimensions (mm, 1/e <sup>2</sup> )         | <b>1.2</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>  |
| Coherence Length (m)                            | <b>&gt;50</b>   |
| Operating Temperature Range (°C)                | <b>15 to 35</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>0.6</b>  |
| Beam Height from Base Plate (mm)                | <b>24.8</b>   |
| Dimensions of Product or Laser Head (mm)        | <b>140.8 (l) x 73 (w) x 46.2 (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.

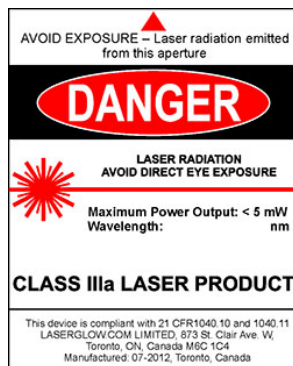
|  |                          |                                   |
|--|--------------------------|-----------------------------------|
| <div>FDA-Compliant Standard</div> <div></div> | Power Supply Type:       | <b>SM</b>                         |
|  | Input Power              | <b>85v to 264v</b>                |
|  | Power Supply Weight (kg) | <b>1.2</b>                        |
|  | Dimensions (mm)          | <b>133 (l) x 130 (w) x 65 (h)</b> |

\*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 (S5A-M) requires the following safety label(s):





Dimensional Drawing - Power Supply Form Factor: SM:



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM(INCH)

TOLERANCES: +/- 0.75 MM

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Laserglow Technologies

TITLE:

Power Supply  
SM/SR








REV  
1

SCALE: 1:2

SHEET 1 OF 1

## Accessories:

The most popular accessories for model S5A-M are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

| Part Number  | Description  |                     |
|--|--|---------------------|
| <br>AGF5327XX    | LSG-532-NF-7 Fit-Over Safety Goggles 532nm<br>Output: OD 7+ at 190-532 nm<br>CE Certified<br>Full Details: <a href="http://www.laserglow.com/AGF">www.laserglow.com/AGF</a>  |                     |
| <br>ACFVISHXA   | FC/PC Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm)<br>(installed and aligned)<br>11mm diameter input lens<br>Full Details: <a href="http://www.laserglow.com/ACF">www.laserglow.com/ACF</a>   |                     |
| <br>ACSVISHXA   | SMA-905 Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm)<br>(installed and aligned)<br>11mm diameter input lens<br>Full Details: <a href="http://www.laserglow.com/ACS">www.laserglow.com/ACS</a> |                     |
| <br>AFS2002XX   | Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length<br>Full Details: <a href="http://www.laserglow.com/AFS">www.laserglow.com/AFS</a>  |                     |
| <br>AFF2002XX | Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length<br>Full Details: <a href="http://www.laserglow.com/AFF">www.laserglow.com/AFF</a>   |                     |
| <br>TBK        | Complete optics kits with breadboard mounting hardware.<br>External modulators, variable attenuators, free-space fiber launch systems<br>Full Details: <a href="http://www.laserglow.com/TBK">www.laserglow.com/TBK</a>    |                     |
| <br>ACALBMXXX | Carrying Case-102<br>Holds Lab/OEM M, R and S size, standard or LabSpec laser<br>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.