

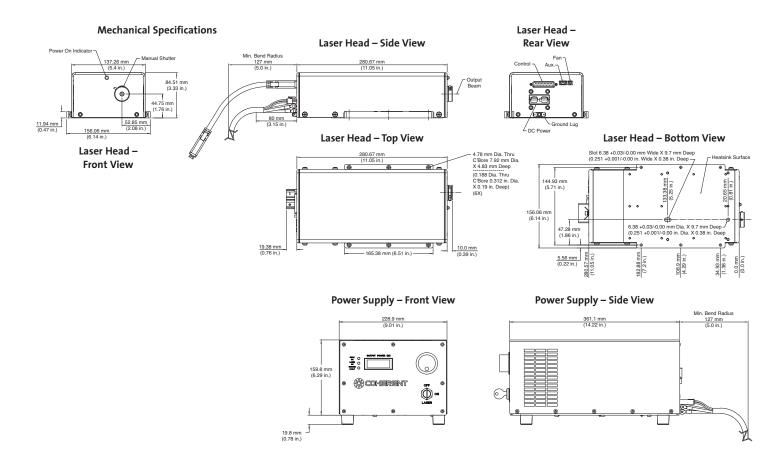
Verdi G SLM-Series

High-Power Optically Pumped Semiconductor Lasers (OPSL)



Features

- Single Longitudinal Mode at 2W and 5W
- Extremely low noise performance
- Superior mode quality
- OPSL reliability
- Lowest cost of ownership



Superior Reliability & Performance

Verdi[™] G SLM-Series

High-Power Optically Pumped Semiconductor Lasers (OPSL)

Optical Specifications ¹	Verdi	G2	G5
	Wavelength (nm)	532 ±2	
	Pulse Format	CW	
	Linewidth² (MHz)	<5	
	Spectral Purity (%)	>99	
	Output Power ³ (W)	2	5
	Spatial Mode	TEMO	0
	Beam Quality	<1.1	
	Beam Circularity ⁴	1.0 ±0.1	
	Beam Waist Diameter (mm)(FW, 1/e²)	2.25 ±10%	
	Beam Divergence (mrad)(FW, 1/e ²)	/e ²) <0.5	
	Beam Waist Location ⁵ (m)	±0.5	
	Beam Pointing Stability ⁶ (µrad/°C)		
	Horizontal Beam Position Tolerance ⁷ (mm)	±<1.0	
	Vertical Beam Position Tolerance ⁷ (mm)	±<1.0	
	Polarization Ratio	Linear, >100:1	
	Polarization Direction	Vertical, ±5°	
	Noise (%, rms)(10 Hz to 100 MHz)	<0.02	
	Power Stability ⁸ (%)(pk-pk)	±<1	
	Warm-Up Time (minutes)	<10	
	CDRH Compliant	Yes	
Electrical Specifications	Operating Voltage (VAC)	100 to 240	
	Frequency (Hz)	50 to 60	
	Power Consumption (W)	500	
Environmental Conditions	Ambient Temperature (°C)		
	Operating	10 to 40	
	Non-Operating	-10 to 60	
	Relative Humidity ⁹ (%)	5 to 95	
	CE Marking	IEC 61010-1/EN 61010-1	
	Dimensions (L x W x H)		
	Laser Head ¹⁰	281 x 156 x 85 mm (11.06 x 6.14 x 3.35 in.)	
	Benchtop Controller	361 x 229 x 160 mm (14	
	Cables (laser head to controller)	3m (10	,
	¹ Optical parameters measured at the output plane of the laser head, unless noted all parameters valid at the nominal output power		
	 and for the lifetime of the unit. ² Measured over 50 msec. ³ This product is offered in several output power versions: 2W and 5W. The output power can be adjusted from 250 mW to maximum power. 		
	 Negative value corresponds to a location inside head. After 2-hour warm-up. 		
	7 Measured at the output window.		
	⁸ Measured over 8 hrs.		
		9 Non-condensing.	

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Verdi G SLM-Series lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

U.S. Patent No. 5,991,318 U.S. Patent No. 6,167,068 U.S. Patent No. 6,285,702 U.S. Patent No. 6,438,153 U.S. Patent No. 6,683,901 U.S. Patent No. 7,180,928 Printed in the U.S.A. MC-010-12-0M0212 Copyright ©2012 Coherent, Inc.

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