

# VLM Series

## Visible CW Fiber Lasers

**NEW PRODUCT**



 Applications

- ▶ Defense & Security
- ▶ Entertainment
- ▶ Material Processing
- ▶ Medical Diagnostics/Therapy
- ▶ Holography
- ▶ Laser Guide Star Adaptive Optics
- ▶ Spectroscopy
- ▶ Flow Cytometry

 Features

- ▶ Choice of Wavelength 560-725 nm
- ▶ Output Power up to 15 W
- ▶ Beam Quality  $M^2=1.1$
- ▶ Telecom Reliability
- ▶ Compact & Low Cost
- ▶ Industrial Performance

**IPG Photonics' NEW VLM Series** is a family of highly-efficient, single-mode, visible CW fiber lasers with output powers up to 15 W. Customers can select a central wavelength in the range 560-725 nm. VLM series lasers are based on IPG's efficient and reliable fiber laser technologies and feature a super-compact lightweight optical head, connected with a fiber cable to a small air-cooled control module. The all fiber construction allows for full range of output power without changes in power stability and beam mode parameters.

# VLM Series

## Visible CW Fiber Lasers

### Optical Characteristics

Typical Central Wavelength <sup>1</sup> , nm	560, 589 and 623
Linewidth FWHM, nm	0.1
Mode of Operation	CW
Average Power, W	up to 15
Power Tunability, %	10-100
Power Stability <sup>2</sup> , %	±1
Polarization	Linear
Beam Quality, M <sup>2</sup>	1.1
Output Beam Diameter (1/e <sup>2</sup> ), mm	<2

<sup>1</sup> Custom central wavelengths, 560-725 nm range, available upon request

<sup>2</sup> Over 5 hours, T= const

### General Characteristics

Module Dimensions <sup>1</sup> , mm	325 x 217 x 43
Optical Head Dimensions, mm	50 x 233 x 46
Cooling	Air-cooled, Thermoconductive Bottom
Supply Voltage, VDC	24
Power Consumption, W	<480

<sup>1</sup> 1 g Rack-mountable units with AC Power Available upon Request

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**The Power to Transform®**

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