



## VLM Series Visible CW Fiber Lasers

#### **NEW PRODUCT**

515-635 nm, up to 20 W





## **Applications**

- ▶ Defense and Security
- ▶ Entertainment
- ▶ Material Processing
- ▶ Holography
  - ▶ Spectroscopy
  - ▶ Flow Cytometry
- ► Medical Diagnostics/Therapy



### **Features**

- ▶ Choice of Wavelength 515-635 nm
- ▶ Output Power up to 20 W
- ▶ Beam Quality M²=1.1
- ▶ High Reliability
- ▶ Compact and 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 20 W. Customers can select a central wavelength in the range 515-635 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*, nm	515, 530, 590, 615, 635
Linewidth FWHM, nm	0.1
Mode of Operation	CW
Average Power, W	up to 20
Power Tunability, %	10-100
Power Stability**, %	±1
Polarization	Linear
Beam Quality, M²	1.1
Output Beam Diameter (1/e²), mm	<2

<sup>\*</sup>Custom central wavelengths in 515-630 nm range are available upon request

<sup>\*\*</sup>Over 5 hours, T= const

General Characteristics	
Module Dimensions*** (W $\times$ D $\times$ H), mm	325 × 217 × 43
Optical Head Dimensions (W $\times$ D $\times$ H), mm	50 × 233 × 46
Cooling	Air-cooled, Thermoconductive Bottom
Supply Voltage, VDC	24
Power Consumption, W	<480

<sup>\*\*\*</sup>Rack-mountable units with AC power are available upon request

- +1 (508) 373-1100; sales.us@ipgphotonics.com
- +49 2736 44200; sales.europe@ipgphotonics.com (European Inquiries)

#### www.ipgphotonics.com

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DANGER - INVISIBLE LASER
RADIATION AVOID EYE OR SKIN
EXPOSURE TO DIRECT OR
SCATTERED RADIATION
CLASS 4 LASER PRODUCT
IEC 60825-1:2014