

GLR Series

CW Green Single-frequency Fiber Lasers





Applications

- Pumping Ti:Sapphire, OPOs Solid State & Dye Lasers
- ▶ Atom Cooling & Trapping
- ➤ Particle Imaging

 Velocimetry/ Flow

 Visualization
- ► Holography & Interferometry
- ▶ Pumping Ti:Sapphire, OPOs, ▶ Solar Cell Manufacturing
 - ► Medical Diagnostics, Therapy & Surgery
 - ► Manufacturing Inspection & Quality Control
 - ► Entertainment & Projection



Features

- ▶ Wavelength 532 nm
- ▶ Output Power up to 100 W
- ▶ Beam Quality M² <1.1
- ► Single-frequency <1 MHz
- ▶ Power Stability 1%
- ▶ Optical Noise <0.2% RMS
- ▶ Linear Polarization >100:1
- ▶ Compact & Low Cost
- ▶ Telecom Reliability
- ▶ Industrial Performance

IPG Photonics' GLR Series is a family of single-mode, single-frequency CW green fiber lasers with output powers up to 100 W. Based on IPG's pioneering highly efficient and reliable fiber laser technologies, GLR lasers feature a super-compact lightweight optical head, connected with a fiber cable to an air-cooled, rack-mounted main laser console. The all fiber construction allows for full range adjustment of output power without any change in power stability and beam mode parameters. The GLR Series green CW lasers are used across a variety of applications from materials processing and medical to scientific and entertainment.



GLR Series

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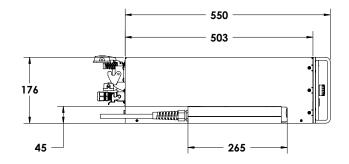
Optical Characteristics							
	GLR-10	GLR-20	GLR-30	GLR-50	GLR-80	GLR-100	
Wavelength, nm	532						
Linewidth FWHM, MHz	<1						
Mode of Operation	CW						
Max. Average Power ¹ , W	10	20	30	50	80	100 ²	
Power Tunability, %	5.0-105	2.5-105	2.3-105		2.0-105		
Power Stability ² , %	± 0.5						
Optical Noise (<20 MHz), %RMS	<0.2						
Polarization	Linear, >100:1						
Beam Quality, M ²	<1.1						

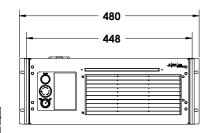
¹ Higher output powers are available in GLPN model. Please contact IPG for more information.

General Characteristics

Main Console Dimensions, mm	448 x 403 x 132 448 x 503 x 176								
Optical Head Dimensions, mm	130 x 265 x 45								
Cooling	Air-cooled								
Supply Voltage, VAC	Single-phase 50-60 Hz, 100-240								
Power Consumption, W	120	180	240	300	450				

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■ The Power to Transform®

² 100 W Available with Special Order

³ Over 8 hours, T= const.