



GLR Series

CW Green Single-frequency Fiber Laser

NEW PRODUCT

Output Power up to 100 W



Applications

- ▶ Pumping Ti:Sapphire, OPOs, Solid State and Dye Lasers
- ▶ Atom Cooling and Trapping
- ▶ Solar Cell Manufacturing
- ▶ Holography and Interferometry
- ▶ Particle Imaging Velocimetry/Flow Visualization
- ▶ Medical Diagnostics, Therapy and Surgery
- ▶ Manufacturing Inspection and Quality Control
- ▶ Entertainment and Projection



Features

- ▶ Wavelength 532 nm
- ▶ Output Power up to 100 W
- ▶ Beam Quality $M^2 < 1.1$
- ▶ Single-frequency < 1 MHz
- ▶ Power Stability 1%
- ▶ Optical Noise $< 0.2\%$ RMS
- ▶ Linear Polarization $> 100:1$
- ▶ Compact and 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.

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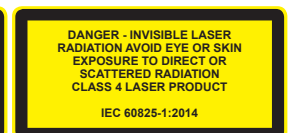
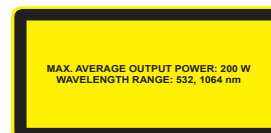
| Optical Characteristics | GLR-10 | GLR-20 | GLR-30 | GLR-50 | GLR-100 |
|-------------------------------|--------|--------|--------------------------|--------|---------|
| Wavelength, nm | | | 532 | | |
| Linewidth FWHM, MHz | | | <1 | | |
| Mode of Operation | | | CW | | |
| Average Power, W | 10 | 20 | 30 | 50 | 100 |
| Power Stability*, % | | | ±0.5 | | |
| Optical Noise (<20 MHz), %RMS | | | 0.2 | | |
| Polarization | | | Linear, >100:1 | | |
| Beam Quality, M ² | | | TEM _{00'} < 1.1 | | |

*Over 8 hours, T= const.

| General Characteristics | | | | | |
|-----------------------------------------|-----------------|-----|-------------------|-----|-----|
| Main Console Dimensions (W × D × H), mm | 448 × 132 × 403 | | 448 × 176 × 503 | | |
| Optical Head Dimensions (W × D × H), mm | | | 130 × 45 × 265 | | |
| Cooling | | | Air-cooled | | |
| Supply Voltage, VAC | | | 100-240, 50-60 Hz | | |
| Power Consumption, W | 120 | 180 | 240 | 300 | 500 |

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