

CW GREEN FIBER LASER



The Power to Transform[®] using GLR SERIES CW GREEN FIBER LASERS

**NEW
PRODUCT**

Features:

- Mode of Operation: CW
- Output Power: up to 300 W
- $M^2 = 1.1$
- Linewidth: <1 MHz
- Optical Noise: <0.2% RMS
- Power Stability: 1%
- PER: >20 dB

Typical Applications:

- Welding & Cutting of Highly Reflective Metals
- Pumping Ti:Sapphire, OPOs, Solid State & Dye Lasers
- Holography
- Solar Cell Manufacturing
- Semiconductor Wafer Annealing
- Manufacturing Inspection & Quality Control
- Atom Cooling & Trapping
- Medical Diagnostics, Therapy & Surgery
- Entertainment



IPG Photonics extends its family of unique and highly-efficient high power, single-mode, single-frequency, low-noise, CW green fiber lasers by adding new models with unprecedented output power up to 300 W. GLR series lasers are based on efficient and

reliable fiber laser technologies, pioneered by IPG, and feature a super-compact, lightweight optical head, connected with a fiber cable to an air-cooled 19" 3U or 4U rack-mounted main laser console.



GLR Series CW Green Fiber Lasers

GLR-5 GLR-10 GLR-20 GLR-30 GLR-50 GLR-100 GLR-150* GLR-200* GLR-300*

1.0 Optical Characteristics

Mode of Operation	CW									
Central Wavelength, nm	532									
Nominal Output Power, W	5	10	20	30	50	100	150	200	300	
Output Beam Mode	TEM ₀₀									
Output Beam Quality, M ²	1.1									
Optical Noise RMS, %	0.2									
Output Power Stability (over 8 hours, T=const), %	±0.5									
Output Signal Linewidth (FWHM), MHz	<1									
Polarization Extinction Ratio, dB	>20									

2.0 Electrical Characteristics

Supply Voltage	100 - 240 VAC, Single-phase									
Power Consumption, W	80	120	180	240	300	450	650	900	1300	

3.0 General Characteristics

Cooling	Forced Air									
Main Console Dimensions, mm	19" Rack 3U 448 x 132 x 403					19" Rack 4U 448 x 177 x 503				
Optical Head Dimensions, mm	130 x 45 x 250							155 x 88 x 354		

*Preliminary

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