

GLPN-500-QCW

QCW Green Single-mode Fiber Laser

NEW PRODUCT



Applications

- ▶ Welding and Cutting of Highly-reflective Metals
- ▶ Laser Shows
- ▶ Solar Cell Manufacturing
- ▶ Laser Projectors
- ▶ Semiconductor Wafer Annealing



Features

- ▶ Wavelength 532 nm
- ▶ Output Power 500 W
- ▶ Beam Quality $M^2 < 1.2$
- ▶ Power Stability ± 2
- ▶ Power Consumption 2800 W
- ▶ Linear Polarization $> 100:1$
- ▶ Super Compact Head

IPG Photonics' NEW GLPN-500 green fiber laser provides ground-breaking maximum average power of 500 W in a perfectly single-mode output beam. GLPN-500 takes advantage of the quasi-CW operation mode to allow for a high-efficiency super compact optical head that does not require any cooling. The laser is both a highly cost-effective, compact OEM module and a user-friendly 19" rack-mounted console. The optical head is connected to a water-cooled, highly-efficient and reliable fiber amplifier, pioneered by IPG. The result is a rugged, industrial-grade, high-power green fiber laser with unmatched performance and remarkable wall-plug efficiency.

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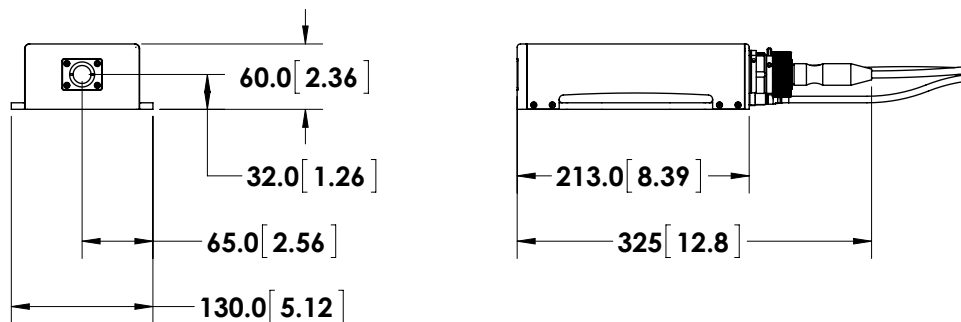
Optical Characteristics

Wavelength, nm	532
Mode of Operation	Pulsed/ Quasi-CW
Repetition Rate, MHz	150
Average Power, W	500
Power Tunability, %	1-100
Pulse Duration, ns	~1.2
Power Stability ¹ , %	±2
Polarization	Linear, >100: 1
Beam Quality, M ²	<1.2

¹ Over 8 hours, T= const.

General Characteristics

	GLPN-500-M	GLPN-500-R
Main Console Dimensions, mm	332 x 527 x 72	448 x 678 x 176
Optical Head Dimensions, mm	105 x 213 x 60	
Cooling	Water-cooled	
Supply Voltage	90 VDC	200-240 VAC, 50-60 Hz
Power Consumption, W	2800	



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