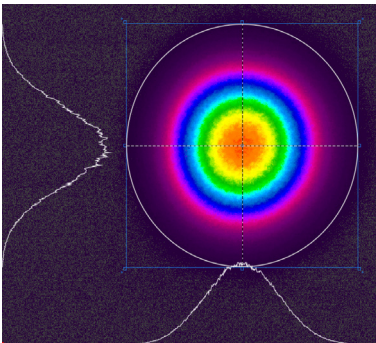




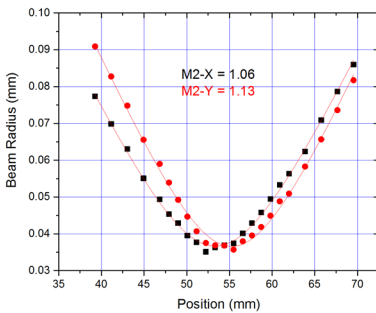
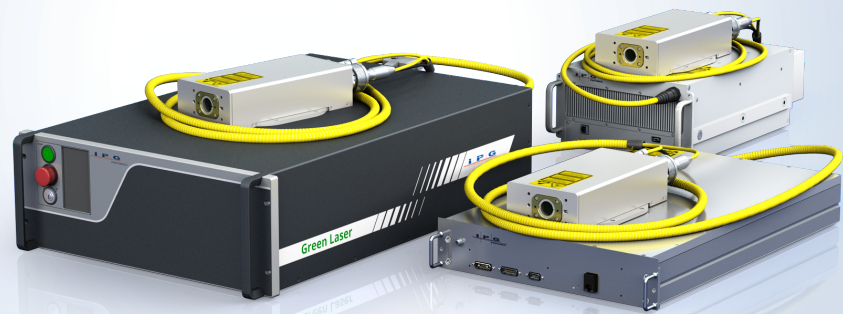
The World's First 1 kW Green Single-mode Laser!

GLPN-532-QCW High Power Ultra-high Frequency Pulses

NEW PRODUCT



Output Power up to 1000 Watt



Applications

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



Features

- ▶ Wavelength 532 nm
- ▶ Output Power up to 1 kW
- ▶ Beam Quality $M^2 < 1.2$
- ▶ Power Stability $\pm 2\%$
- ▶ Wall Plug Efficiency up to 25%
- ▶ Linear Polarization $> 100:1$
- ▶ Super Compact Head

IPG Photonics' NEW GLPN-532-QCW and VLR-532 high power green fiber laser provide ground-breaking maximum average power up to 1000 W in a perfectly single-mode output beam. These lasers take advantage of high repetition rate operation mode to allow for a high-efficiency super compact optical head. The lasers are offered as both highly cost-effective compact OEM modules and user-friendly 19" rack-mounted consoles. 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 wallplug efficiency.

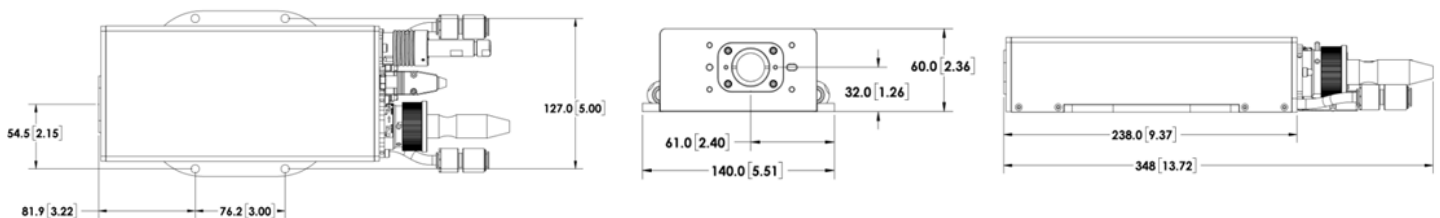
GLPN-532-QCW High Power Green Single-mode Fiber Lasers

Optical Characteristics	GLPN-100	GLPN-200	GLPN-500	GLPN-1000
Wavelength, nm	532			
Mode of Operation	Pulsed/QCW			
Repetition Rate, MHz	~25	~50	~125	~250
Average Power, W	100	200	500	1000
Power Tunability, %	1-100			
Pulse Duration, ns	~1.2			
Power Stability*, %	±2			
Polarization	Linear, >100:1			
Beam Quality, M ²	<1.2			

* Over 8 hours, T= const.

General Characteristics				
Optical Head (W × D × H), mm	114 × 238 × 60			
Module Dimensions (W × D × H), mm	Air-cooled* 294 × 491 × 149		Water-cooled 332 × 527 × 71	
Console Dimensions (W × D × H), mm	Air-cooled* 448 × 533 × 177		Water-cooled 448 × 678 × 176	
Module Supply Voltage, VDC	48 VDC		56 VDC	
Console Supply Voltage, VAC	100-120 VAC, 50-60 Hz		200-240 VAC, 50-60 Hz	
Power Consumption, W	580	950	2100	3900

* Water-cooled 100 W modules and 3U 19" rack-mounted consoles are available upon request.



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MAX. AVERAGE OUTPUT POWER: 2000 W
MAX. PEAK OUTPUT POWER: 5 kW
PULSE DURATION: ~1.5 ns
PULSE REPETITION RATE: 2-150 MHz
WAVELENGTH RANGE: 532, 1064 nm

⚠ DANGER - INVISIBLE LASER
RADIATION AVOID EYE OR SKIN
EXPOSURE TO DIRECT OR
SCATTERED RADIATION
CLASS 4 LASER PRODUCT

IEC 60825-1:2014

■ The Power to Transform®