

GLPN-100-M

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 100 W
- ▶ Beam Quality $M^2 < 1.2$
- ▶ Power Stability 1%
- ▶ Power Consumption 530 W
- ▶ Linear Polarization >100:1
- ▶ Compact and Low Cost
- ▶ OEM Package

IPG Photonics introduces a cost-effective industrial-grade OEM modular version of the popular high power, single-mode green fiber laser with 100 W maximum output power. **IPG's GLPN-100-M** utilizes efficient and reliable fiber laser technologies and takes advantage of the quasi-CW mode of operation to achieve a low power consumption and small footprint. The GLPN-100-M features a super compact optical head and an air-cooled laser module connected by a fiber cable. With no additional cooling requirements and improved tolerance to vibrations, IPG's GLPN-100-M is ready for integration into OEM systems.

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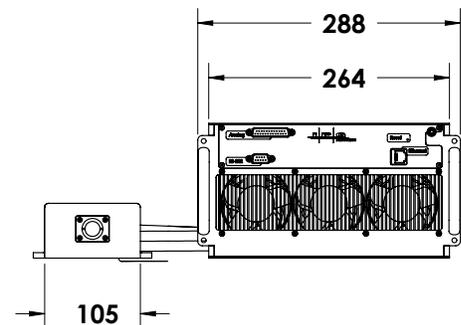
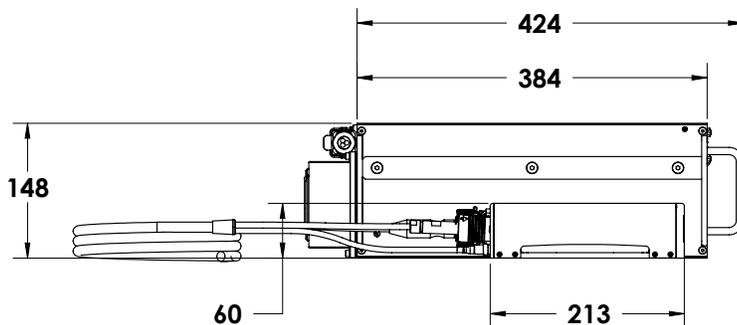
Optical Characteristics

Wavelength, nm	532
Mode of Operation	Pulsed/ Quasi CW
Repetition Rate, MHz	30
Average Power, W	100
Power Tunability, %	2-100
Pulse Duration, ns	1.5
Power Stability*, %	±0.5
Polarization	Linear, >100: 1
Beam Quality, M ²	TEM ₀₀ , <1.2

* Over 8 hours, T=const

General Characteristics

Module Dimensions, mm	264 x 148 x 384
Optical Head Dimensions, mm	105 x 60 x 213
Cooling	Air-cooled
Supply Voltage, VDC	40
Power Consumption, W	530



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