GLPN-500-1.5-100-R

Pulsed Green Nanosecond Fiber Laser

NEW PRODUCT

Pulsed Green Laser for Micromachining

Applications

- Materials Processing
- Micromachining
- Solar/Photovoltaic
- Plastics Marking
- Texturing
- Si Ablation
- Scribing

Features

- Wavelength 515 nm
- Pulse Energy 500 µJ
- Pulse Duration 1.5 ns
- Peak Power up to 400 kW
- High Beam Quality
- Repetition Rate up to 1000 kHz
- Record Wall-plug Efficiency
- Air-cooled
- Rugged Design

IPG Photonics' NEW GLPN-R Series of green nanosecond fiber lasers provide high peak power with scalable average output power up to 100 W and adjustable pulse duration in the range 1-10 ns at full operational repetition rate range of 10-1000 kHz. The all fiber format allows for the adjustment of pulse energy and/or pulse repetition rate without affecting any of the output beam parameters. IPG's novel fiber laser is much more efficient and compact than conventional lasers on today's market and is ideal for applications in the solar/photovoltaic arena, resistor trimming and marking of transparent materials. The short wavelength, short pulse duration and high peak power result in a very small heat affected zone.

GLPN-500-1.5-100-R

Pulsed Green Nanosecond Fiber Laser

Optical Characteristics

Wavelength, nm	515
Average Power, W	100
Pulse Energy, µJ	Up to 500
Pulse Duration*, ns	1.5; 4; 10
Peak Power, kW	Up to 400
Repetition Rate, kHz	10-1000
Beam Quality, M^2	<1.6

General Characteristics

Module Dimensions (W × D × H), mm	449 × 518 × 176
Optical Head Dimensions (W × D × H), mm	65 × 216 × 70
Cooling	Air-cooled
Supply Voltage, VAC	Single-phase 50-60 Hz, 100-240
Power Consumption, W	<490

*User can select preset pulse durations in the 1-10 ns range.

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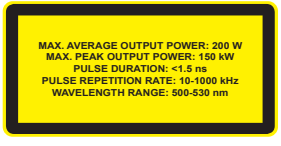

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