GLPN-20-1-20-M

Pulsed Green Nanosecond Fiber Laser

Applications

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

Features

- Wavelength 532 nm
- Output Power up to 20 W
- Peak Power >150 kW
- Beam Quality, M^2 <1.3
- Very Small Heat Affected Zone
- Air-cooled
- Compact & Low Cost
- Rugged Design

IPG Photonics' GLPN-20-1-20-M Series of green nanosecond fiber lasers provide high peak power with scalable average output power up to 20 W and ~1 ns pulse duration at full operational repetition rate range of 10-600 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. These lasers are offered as both OEM modules and end user friendly 19" rack mountable units and are 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.

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Optical Characteristics

	20-1-10-M	20-1-20-M
Wavelength, nm	532 ±10	
Mode of Operation	Pulsed	
Average Power, W	10	20
Pulse Energy, µJ	20	
Pulse Duration, ns	1.3-2.0	
Power Tunability, %	1-100	
Peak Power, kW	>150	
Repetition Rate, kHz	10-600	
Beam Quality, M^2	<1.3	

General Characteristics

Control Unit Dimensions, mm	260 x 270 x 87
Optical Head Dimensions, mm	112 x 220 x 67
Control Unit Cooling	Air-cooled
Optical Head Cooling	Water
Supply Voltage, VDC	48

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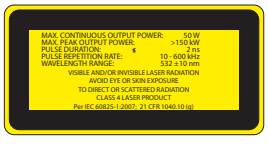

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