

# GLPN-30-1-30-M

## Pulsed Green Nanosecond Fiber Laser

3-pulse Burst Mode



### FEATURES

- ▶ Wavelength 532 nm
- ▶ Output Power up to 30 W
- ▶ Peak Power >20 kW
- ▶ Beam Quality,  $M^2 < 1.2$
- ▶ 3-pulse Burst Mode
- ▶ Very Small Heat Affected Zone
- ▶ Air-cooled
- ▶ Compact and Low Cost



### APPLICATIONS

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

**GLPN-M Series** of green nanosecond fiber lasers provide high peak power with scalable average output power up to 30 W and ~1.5 ns pulse duration at full operational repetition rate range of 10-900 kHz. This laser features 3-pulse burst mode allowing users to optimize performance in micromachining applications.

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 compact, rugged and cost-effective OEM modules. End user friendly 19" rack mountable units can also be offered upon request.

The short wavelength, short pulse duration and high peak power result in a very small heat affected zone, making these lasers ideal for applications in the solar/photovoltaic arena, resistor trimming and marking of transparent materials.

# GLPN-30-1-30-M

## Pulsed Green Nanosecond Fiber Laser

Optical Characteristics	40-1-10-M	40-1-20-M	30-1-30-M
Wavelength, nm	532		
Mode of Operation	Pulsed, 3-pulse Burst		
Average Power, W	10	20	30
Pulse Energy, $\mu$ J	40		30
Pulse Duration, ns	1.3-2.0, Typ. 1.5		
Power Tunability, %	20-100		
Peak Power, kW	>20		
Repetition Rate, kHz	10-250	10-500	10-900
Beam Quality, $M^2$	<1.2		

### General Characteristics

Control Unit Dimensions (W x D x H), mm	270 x 260 x 90
Optical Head Dimensions (W x D x H), mm	112 x 220 x 67
Control Unit Cooling	Air
Optical Head Cooling	Water
Supply Voltage, VDC	24



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MAX. AVERAGE OUTPUT POWER: 60 W  
MAX. PEAK OUTPUT POWER: 40 kW  
PULSE DURATION: 1 ns  
PULSE REPETITION RATE: 10-900 kHz  
WAVELENGTH RANGE: 500-530 nm

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

IEC 60825-1:2014

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