

GLPN-M 10-30 W

Green Nanosecond Fiber Lasers

3-pulse Burst
Mode Option



FEATURES

- ▶ Wavelength 532 nm
- ▶ Output Power up to 30 W
- ▶ Beam Quality, $M^2 < 1.2$
- ▶ 3-pulse Burst Mode Option
- ▶ 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 option 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.

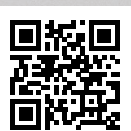
The short wavelength, short pulse duration and high peak power result in a very small heat affected zone, making these lasers ideal for applications in the solar/photovoltaic arena, resistor trimming and marking of transparent materials.

GLPN-M 10-30 W

Green Nanosecond Fiber Lasers

Optical Characteristics			
Wavelength, nm	532		
Pulse Duration, ns	1.3-2.0, Typ. 1.5		
Power Tunability, %	20-100		
Beam Quality, M ²	<1.2		
	GLPN-40-1-10-M	GLPN-40-1-20-M	GLPN-30-1-30-M
Average Power, W	10	20	30
Mode of Operation	3-pulse Burst		
Pulse Energy, μJ	40		30
Repetition Rate, kHz	100-250	10-500	10-900
	GLPM-5	GLPM-10	GLPM-15
Average Power, W	5	10	15
Mode of Operation	Pulsed		
Pulse Energy, μJ	16		15
Repetition Rate, kHz	10-300	10-600	10-1000

General Characteristics	
Control Unit Dimensions (W × D × H), mm	270 × 260 × 90
Optical Head Dimensions (W × D × H), mm	112 × 220 × 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: 10-1000 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