YLPN-1-1-100-M

Ytterbium Nanosecond Fiber Laser

NEW PRODUCT

Applications

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

Features

- 1060 nm
- Pulse Energy 1 mJ
- Pulse Duration 1.5 ns
- High Peak Power up to 1 MW
- Repetition Rate up to 300 kHz
- Record Wall-plug Efficiency
- Air-cooled
- Rugged Design

IPG Photonics' NEW YLPN Series of nanosecond fiber lasers provides high peak power with scalable average output power up to 100 W, short pulse duration <2 ns at full operational repetition rate range of 10-300 kHz. The all fiber format allows for the adjustment of pulse energy and/or pulse repetition rate without affecting the output beam parameters. IPG's novel fiber laser is much more efficient and compact than conventional lasers now on the market and is ideal for applications in the solar/photovoltaic arena, resistor trimming and marking of transparent materials. The ultrashort pulse duration and high peak power result in a very small heat affected zone.

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Ytterbium Nanosecond Fiber Laser

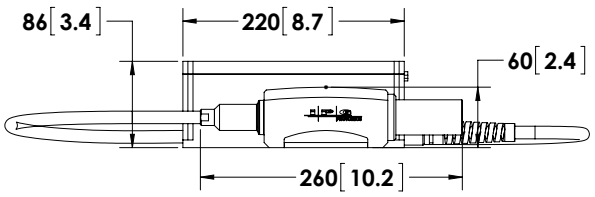
Optical Characteristics

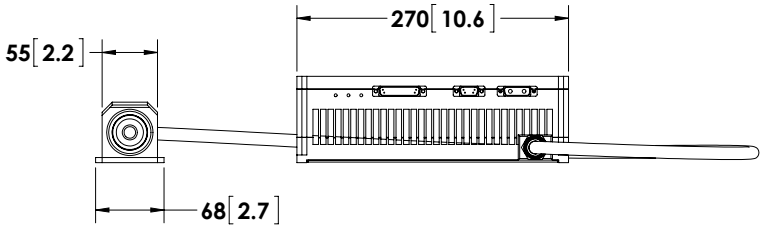
Wavelength[1], nm	1060
Average Power, W	100
Pulse Energy, mJ	1
Pulse Duration, ns	1.3-2.0
Peak Power, MW	up to 1
Repetition Rate, kHz	10-300
Beam Quality, M^2	<2.0

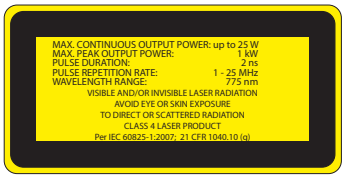
[1] Wavelength 1020-1070 nm avail. upon request

General Characteristics

Module Dimensions, mm	270 x 220 x 86
Optical Head Dimensions, mm	55 x 260 x 60
Cooling	Air-cooled
Supply Voltage, VDC	24
Power Consumption, W	430







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