

# YLPN-1-1x120-100-M

## Adjustable Pulse Duration Nanosecond Laser

NEW PRODUCT



### Applications

- ▶ Precision Marking
- ▶ Trimming
- ▶ Coating removal
- ▶ Scribing
- ▶ Surface Treatment
- ▶ Texturing
- ▶ Micro Cutting



### Features

- ▶ Full Flexibility in Operating Parameters
- ▶ Excellent Pointing Stability
- ▶ Instant Modulation Response
- ▶ Over 20% Wall-plug Efficiency
- ▶ Maintenance-free Operation
- ▶ OEM Package
- ▶ Air-cooled
- ▶ Compact and Low Cost
- ▶ Rugged Design

**IPG Photonics' YLPN-1-1x120-100-M** nanosecond ytterbium fiber laser provides peak power of 15 kW with scalable average output power up to 100 W, adjustable pulse waveforms in the range of 1-120 ns. The laser is triggered externally in a wide range of pulse repetition rates 2-14000 kHz, offers pulse energy of up to 1 mJ and the ability to scale average power independent of the energy. An output isolator ensures high output power stability and allows to process highly reflective materials.

IPG's YLPN laser is a small air-cooled maintenance-free module designed for OEM applications. The robust all fiber design packaged into a rugged case allows operation in harsh industrial environments. The all fiber format allows for the adjustment of peak power and/or pulse repetition rate without affecting any of the output beam parameters. This fiber laser is much more efficient and compact than conventional lasers on the market. Fine processing of thin foils and coating as well as treatment of surfaces is easy to adjust using wide range of operating parameters. It is ideal for applications in micromachining, scribing, texturing, ablation, the solar/ photovoltaic arena, hole drilling, resistor trimming and marking.

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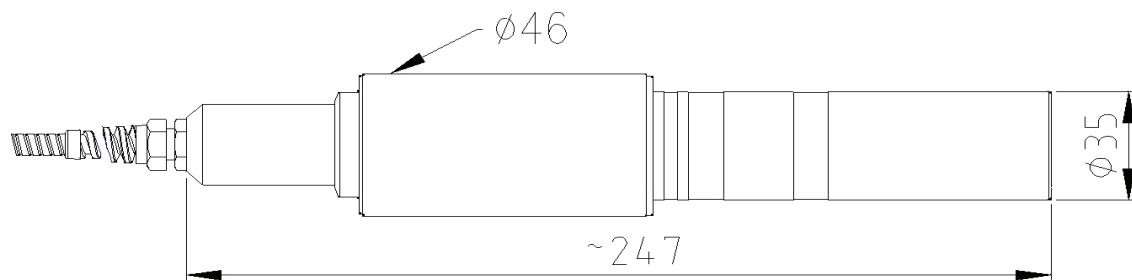
## Adjustable Pulse Duration Nanosecond Laser

### Optical Characteristics

Wavelength, nm	1064
Average Power, W	100
Pulse Energy, mJ	1
Pulse Duration, ns	1-120
Peak Power, kW	up to 15
Repetition Rate, kHz	2-14000
Beam Quality, M <sup>2</sup>	<1.8

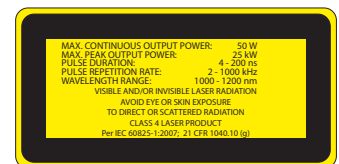
### General Characteristics

Control Unit Dimensions, mm	215 x 286 x 120
Optical Head Dimensions (diam x L), mm	46 x 247
Cooling	Air-cooled
Supply Voltage, VDC	24
Power Consumption, W	~330



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