EPEE-G15

ELIXIR
Photonics Incorporated

High Power Industrial Picosecond Green Laser

EPEE-G15 combines advantages of fiber laser and free-space solid state amplifier technology and SHG technology to get >15 W output power with pulse energy over 100 µJ and pulse duration <15 ps at 532 nm wavelength.

- The fiber seed enables the EPEE-G15 to be more stable, compact and more flexible than the traditional solid-state seed lasers.
- The solid-state amplifier ensures the output of high pulse energy with excellent beam quality and extreme stable operation of the laser.

KEY HIGHLIGHTS

- Repetition rate of single shot to 2 MHz
- TEM_{00} (M^2<1.3)
- Pulse width <15 ps
- Pulse energy > 100 µJ
- Burst Mode available
- Compact
- RS232 and external GATE control
- Assembled in 1000 class clean room

APPLICATIONS

- Glass cutting and drilling
- Ceramic cutting and drilling
- Semiconductor cutting
- Precision machining
- Sapphire cutting and drilling
- Thin film cutting
- Scientific applications

HIGH POWER INDUSTRIAL PICOSECOND GREEN LASER

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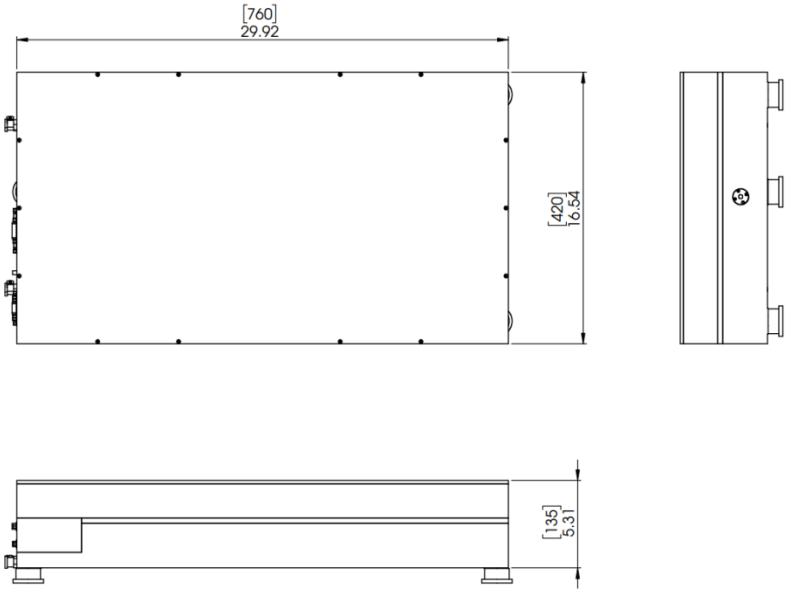
15 W 532 nm High Power Industrial Picosecond Green Laser

HIGH POWER INDUSTRIAL PICOSECOND GREEN LASER

System Specifications

Center Wavelength	532 nm
Pulse Repetition Rate	Single shot to 2 MHz
Pulse Duration	<15 ps
Maximum Average Power	> 15 W @ 200 kHz
Average Power Stability	< 2% rms over 8 hours
Pulse-to-pulse Stability	< 3% rms
Spatial Mode	TEM_{00}, M^2 < 1.3
Beam Divergence	< 1.5 mrad (full angle)
$1/e^2$ Beam Diameter	~1.5 mm
Beam Roundness	> 90%
Pointing Instability	< 50 µrad
Polarization Direction	Vertical
Polarization Ratio	> 100:1
Cooling	Water-cooling
Ambient Temperature	15 to 30°C
Storage Temperature	-10 to 50°C
Relative Humidity	10% to 80% (non-condensing)
Warm-up Time	< 10 minutes
Operating Voltage	85 to 264 V (50/60 Hertz)

Mechanical Specifications



Elixir Photonics follows a policy of continuous product improvement. Specifications are subject to change without notice. Elixir Photonics offers a limited warranty for all EPEE lasers. For full details of this warranty coverage, please contact Sales Department at sales@elixirphotonics.com.

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