



High Power Industrial Picosecond Laser



EPEE-8 combines advantages of fiber laser and free-space solid state amplifier technology to get >8 W output power with pulse energy over 80 μ J and pulse duration <15 ps.

- The fiber seed enables the EPEE-8 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

TEM₀₀ (M²<1.3)

Pulse width <15 ps

Pulse energy > 80 µJ

Burst Mode available

Compact

HIGH POWER INDUSTRIAL PICOSECOND GREEN LASER

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



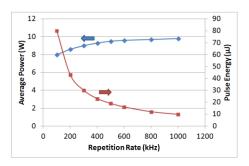
EPEE-8

8 W 1064 nm High Power Industrial Picosecond Laser

System Specifications

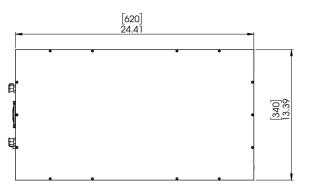
Center Wavelength	1064 nm
Pulse Repetition Rate	Single shot to 2 MHz
Pulse Duration	<15 ps
Maximum Average Pov	wer > 8 W @ 1 MHz
Average Power Stabilit	y < 2% rms over 8 hours
Pulse-to-pulse Stability	/ < 3% rms
Spatial Mode	TEM ₀₀ , M ² < 1.3
Beam Divergence	< 2 mrad (full angle)
1/e ² Beam Diameter	~1.2 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)

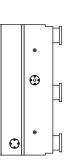
Test Data

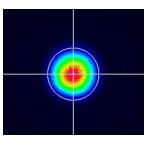


9.450W	Satuto Nin 9.200W Int Dec 44.05mW	blas 9.540W Oversege 0	Juerage 9.430W			p 501 fau II O
A: 304-88-18 [W]					W =	-
14.00						
12.00						_
18:00 -		_				
8.000						_
6.000 -						
4.000 -						_
2.000 -						
0.000	0.00	00.00.00	12:00:00 Time (hana)	15.02.00	20:00:00	

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.



