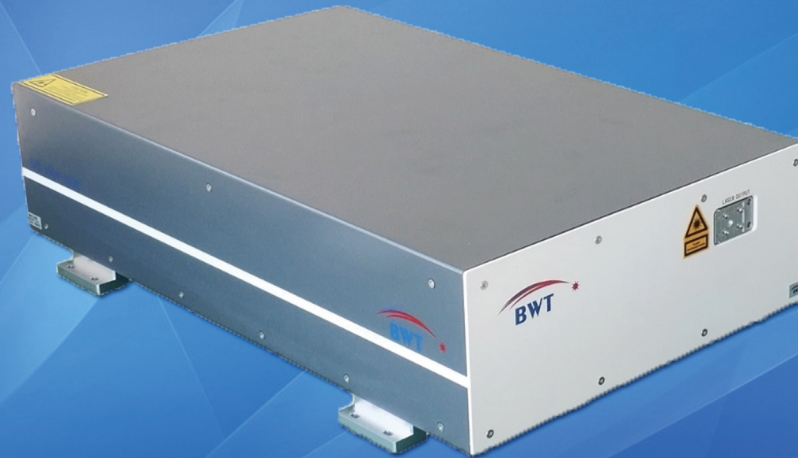


# BGL-1064-100B



## 100W Industrial High Power Picosecond



The 100W Picosecond laser, developed and manufactured by Tianjin BWT Laser Ltd., is based on fiber seed and multiple-pass solid state amplifiers configuration, which keeps the stability benefits of fiber laser and at the same time enables the extraction of high pulse energy from the laser system. The entire laser is built inside a sealed cavity which effectively prevent micro-dust from getting inside the laser cavity. There are multiple photo-detectors built inside the laser to monitor the system performance and to fine-adjust parameters to ensure the optimum performance. All lasers are built inside class-10k cleanroom environment and we strictly follow advanced production process protocols. This Picosecond laser is suitable for glass and ceramic cutting and drilling, metal parts precision machining, etc.

### KEY HIGHLIGHTS

Average power: 100W  
Maximum Pulse Energy: 400 $\mu$ J@250kHz  
Pulse Energy Stability: < 3% rms  
Beam Quality: M2 < 1.40, circularity > 85%  
Rep Rate: single pulse – 1MHz adjustable  
Burst mode, can adjust individual pulse intensity  
External Control: RS232, GATE, TRIG  
Pulse on Demand function ready

### APPLICATIONS

Glass, Ceramic etc cutting and drilling  
Sapphire cutting and drilling  
Semiconductor cutting  
Thick glass cutting  
Precision Laser Marking  
Seed to obtain picosecond UV

100W Industrial High Power Picosecond

# BGL-1064



## Picosecond IR Series

Parameters	Specifications				
Power	10W	20W	30W	50W	100W
Model Number	BGL-1064-10B	BGL-1064-20B	BGL-1064-30B	BGL-1064-50B	BGL-1064-100B
Wavelength	1064nm				
Repetition Rate	Single pulse – 1MHz				
Pulse Width	< 15 ps				
Output Power	10W@100kHz	20W@200kHz	30W@150kHz	50W@200kHz	100W@250kHz
Max. Pulse Energy	100 μJ	100 μJ	200 μJ	250 μJ	400 μJ
Power Stability	< 2%rms over 8 hours				
Pulse Energy Stability	< 3% rms				
Beam Quality	TEM00 (M2 <1.4)				
Beam Circularity	> 85%				
Polarization	Vertical	Horizontal	Horizontal	Horizontal	Horizontal
PER	>100:1				
External Control	RS232, GATE, TRIG				
Cooling	Water Cooling				
Ambient Temp	15 – 30 °C				
Storage Temp	-10 – 50°C				
Humidity	10%-80% (non-condensing)				
Warm-up Time	<20minutes				
Voltage	AC 90 – 260 V				

