

PS100-G Picosecond Laser

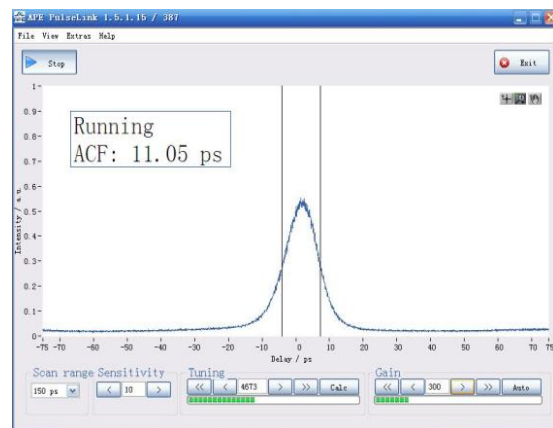
The PS100-G combines the advantages of a free-space solid state amplifier and fiber laser technology to produce greater than 2W of output power at a pulse repetition rate of 500kHz, sub 15ps pulse widths, and beam quality of $M^2 < 1.3$. The fiber seed allows the laser to be more stable, compact, and operationally flexible than traditional solid-state seed lasers. The solid state amplifier enables the output of high pulse energies while maintaining excellent beam quality.

Highlights:

- 50 – 1000kHz pulse repetition rate
- TEM₀₀, ($M^2 < 1.3$)
- Pulse width <15ps
- Burst Mode available
- RS232 and external GATE control
- Assembled in 1000 class cleanroom
- Long-run working stability
- Small size and compact design
- Quick and easy to replace laser diode module

Applications:

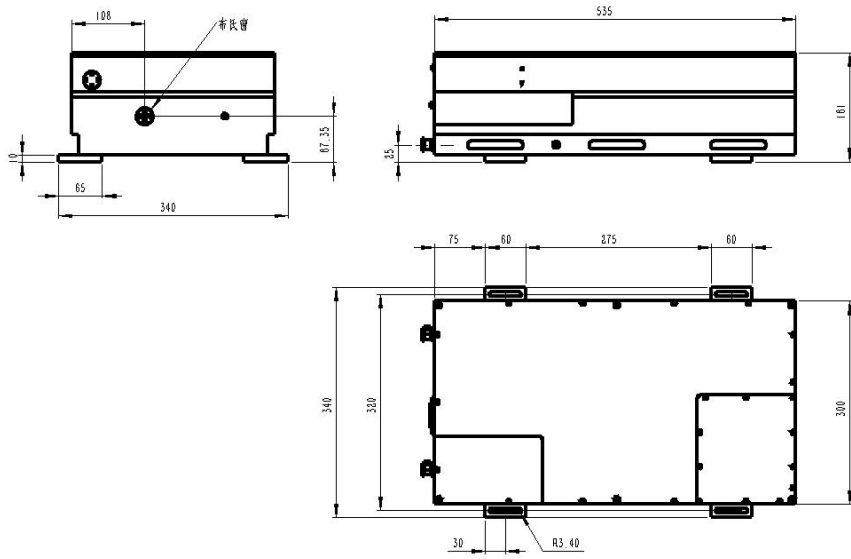
- ◆ Material micromachining
- ◆ Glass cutting and drilling
- ◆ Wafer dicing
- ◆ Sapphire cutting and drilling
- ◆ Film etching
- ◆ Scientific research



Specifications:

Model	PS100-G
Wavelength(nm)	1064
Pulse repetition rate(kHz) :	50-1000
Pulse Width (ps) :	<15
Average Power(W) :	>2W@500kHz
Average Power Stability :	<2%rms over 8hours
Pulse-to-Pulse instability:	<3% rms
Spatial Mode:	TEM ₀₀ (M ² <1.3)
Beam Divergence :	< 2 mrad(Full Angle)
1/e ² Beam Diameter :	1±0.2mm
Beam Roundness:	>90%
Pointing stability:	<50urad
Polarization Direction	Vertical
Polarization Ratio	100: 1
Cooling	Water-cooling
Ambient Temperature(°C)	15-30
Storage Temperature(°C)	-10-50
Relative humidity	10%-80%(non-condensing)
Warm-up Time(mins)	<10
Operating Voltage(V)	90-260

PS100-G Laser Head External Dimensions:



PS100-G Controller External Dimensions:

