## Tm-Doped Single-Pass SHG Fiber Laser

Narrow Linewidth, Low Frequency Drift, Mode-hopping Free, Acctive power Stability, Excellent Beam Quality



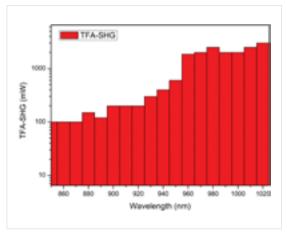
PreciLasers provides narrow-linewidth, mode-hopping free, frequencydoubled single frequency lasers near 1000nm, based on Tm-doped fiber lasers (TFL-SSHG). It consists of an all-fiber amplifier seeded with single frequency fiber DFB laser, and a single-pass frequency doubling unit with PPLN/PPSLT crystal. Compared with frequency-doubled diode laser, the fiber solution has stable configuration, excellent beam quality (M<sup>2</sup> <1.1). It remains mode-hopping-free and stable under wide temperature variation and high mechanical vibration.

## Key Features:

- Narrow Linewidth(<20 kHz)</p>
- Good Beam Quality (M<sup>2</sup> <1.1)
- Stable and Maintainence-free
- Mode-Hopping Free

## **Applications:**

- Laser cooling, trapping, Optical Lattice
- Pump laser for OPO, Ti:Saphire
- 🛑 Biomedical
- Solar cell processing



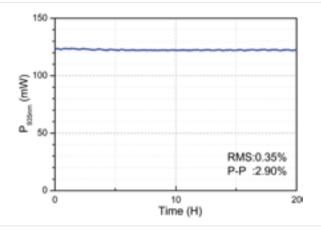
Wavelength-Power

Model	TL-SSHG-XX-YY-ZZ <sup>1</sup>			
Central Wavelength <sup>1</sup> ,nm	920	935	960	975
Output Power , W	0.5	1	2	2
Linewidth (100 us), kHz	<20			
No hopping tuning range, nm	>0.4			
Beam Quality	M <sup>2</sup> < 1.1, TEM <sub>00</sub>			
PER, dB	Linear, PER>20dB			
RMS Power Stability, %	<0.3% RMS@3h			
Power Range	10%-100%			
Cooling	Air Cooling/Water Cooling			
Power consumption, W	<200W			

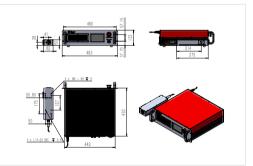
1: XX: Central Wavelength, YY: Maximum Output Power, ZZ: Operation Mode

2: The center wavelength can be customized

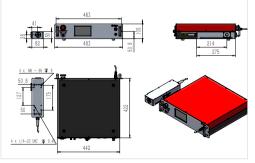
3: High power can be customized



Power Stability



Size for Air-cooling Version



Size for Water-Cooling Version