



Single Pass THG Fiber Laser



The product description

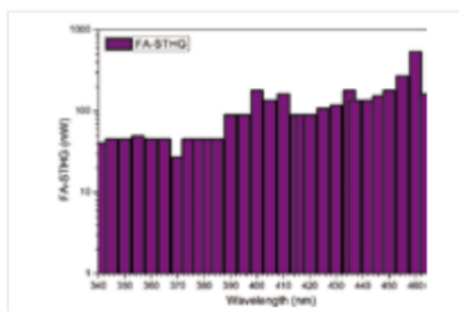
Erbium group offers high power, narrow-linewidth, frequency doubled Raman fiber laser from 355 to 464 nm for applications like laser cooling of ions and atoms. It consists of an all-fiber Yb-doped or Raman amplifiers seeded with ultra narrow linewidth fiber DFB laser or external cavity diode laser, and a single-pass frequency tripling unit with PPLN crystal. Compared with frequency-doubled diode laser, the fiber solution has stable configuration and excellent beam quality ($M^2 < 1.1$). It can be applied in the quantum technology, biomedical and industry.

Key Features:

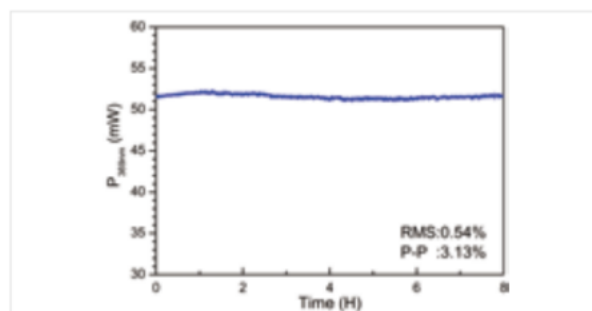
- Narrow Linewidth, polarization
- Active Power Stability
- Stable and Maintenance-free
- Good Beam Quality ($M^2 < 1.1$)
- No Mode-Hopping

Applications:

- Laser cooling, trapping
- Laser Spectroscopy
- Medicine and biophotonics
- Electromagnetically Induced Transparency (EIT)



Wavelength-Power



Beam Profile and Power Stability



Technical indicators

Model	FL-STHG-XX-YY-ZZ ¹	
Wavelength Range ² , nm	355-369	400-461
Output Power ³ , mW	40	200
Seed Laser	Precilasers' Fiber DFB Laser	ECDL
Frequency converted	Single Pass THG	
Fast Tuning Range, GHz	9	60
Slow Tuning Range, nm	0.2	2
Linewidth, kHz	<30	<30
RMS Power Stability, %	<0.5%@3hrs	
Beam Quality	TEM ₀₀ , M ² <1.1	
PER, dB	>20	
Beam Diameter, mm	0.7-1.0	
Cooling	Water Cooling/Air Cooling	
Power Supply	50-60Hz, 100-240VAC	
<p>1: XX: Central Wavelength, YY: Maximum Output Power, ZZ: Operation Mode</p> <p>2: Central wavelength can be customized</p> <p>3: High power can be customized</p>		

Structure size

