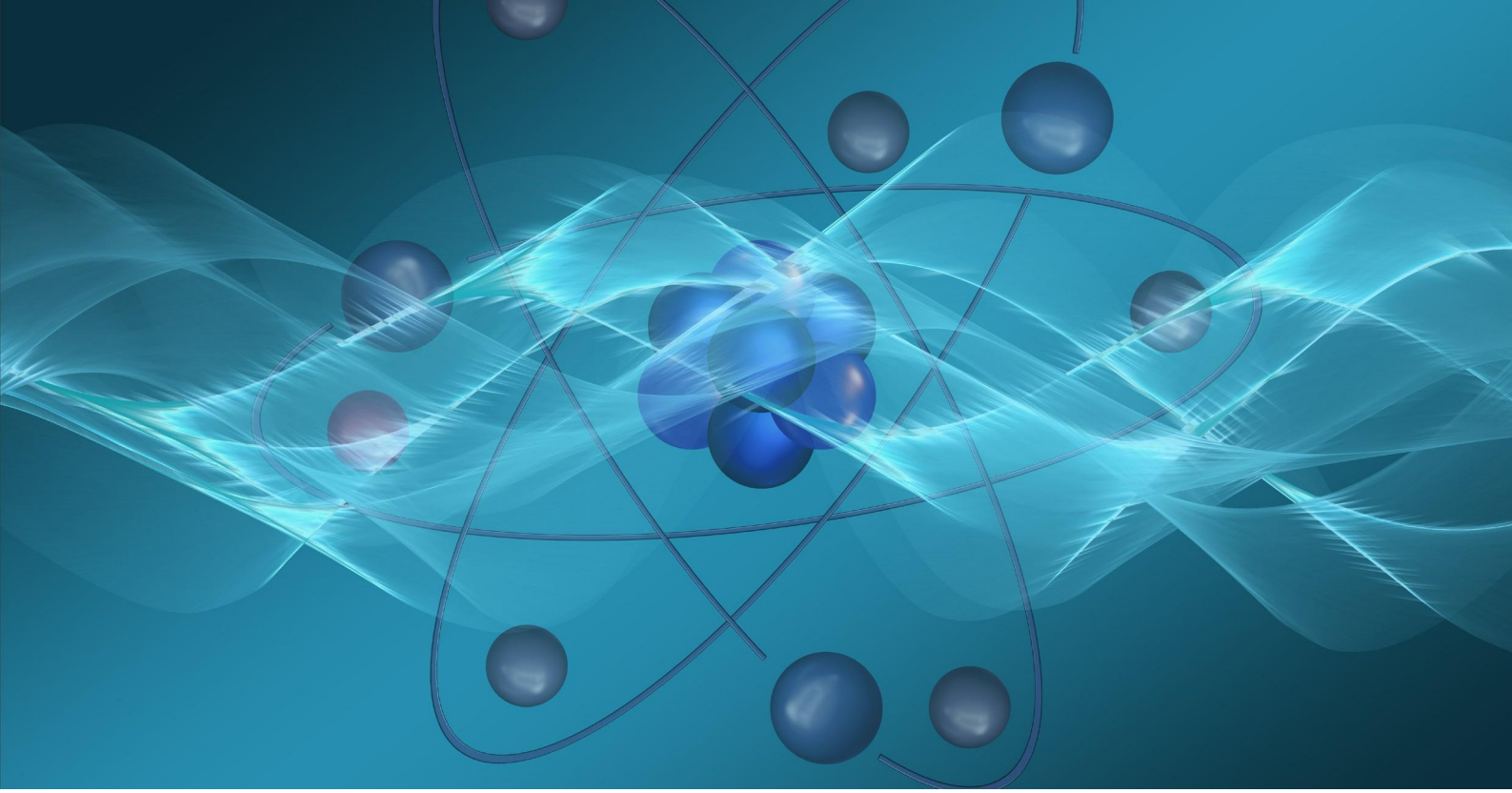

305-440nm Narrow Linewidth Laser

Based on high-power, low-noise fiber amplification and sum frequency and frequency doubling technology, high-power narrow-linewidth laser output with any central wavelength in the range of 305-365.5nm and 405-440nm is achieved.

Features

- Narrow Line Width: <40kHz
- Low RIN
- High Power
- Active Power Stabilization: <0.75%rms, 3hrs
- Excellent Beam Quality (M^2 <1.2)
- Never Mode Hop

Applications

- Lithium ion, calcium ion, strontium atom cooling
- Quantum simulation
- Biological Sciences
- Laser spectroscopy
- Electromagnetic Induction Transparency

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Specification			
Partnumber	FL-SF-XXXX-YY-CW(1)		
Wavelength Range	305-350nm	350-365.5nm	405-440nm
Typical Wavelength	313nm	355nm	421nm
Seed Type	FECL+Fiber DFB Seed		Dual Fiber DFB Seed
Output Power	> 2W	> 4W	> 8W
Monitor Output Power	> 5mW	> 3mW	> 5mW
Thermal Tuning Range	> 150GHz，Never Mode-hop		> 350GHz，Never Mode-hop
Output Mode	Free Space Output，Beam Diameter 0.7-1.0mm		
Linewidth (2) (100us)	< 40kHz		
PER	> 20dB		
Power Stability	< 0.75%		
Beam Quality	M^2 < 1.3		
PZT Frequency Tuning Range	> 3GHz		
PZT Frequency Tuning Bandwidth	> 5kHz		
Fast Frequency Tuning Range	> 1GHz		
Fast Frequency Tuning Bandwidth	> 1MHz		
Cooling	Air Cooling or Water Cooling		

(1)XXXX is the laser center wavelength，YY is the laser power，for a 6W 813nm laser,the partnumberis FL-SF-813-6-CW.
(2)Measured by self-hetrodyne method.

Operations	
Low Noise Option	Low noise option available for dual fiber DFB seeds
AOM Options	AOM Tuning Range： > ±5MHz AOM tuning bandwidth： > 500kHz

Other Parameters	
Power Supply	100-240V , 50/60Hz

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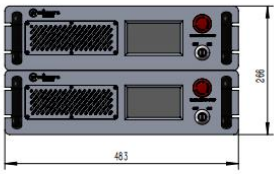
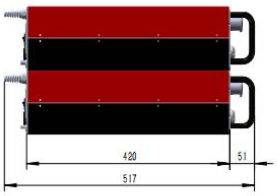
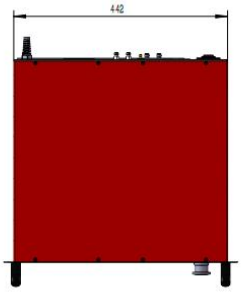
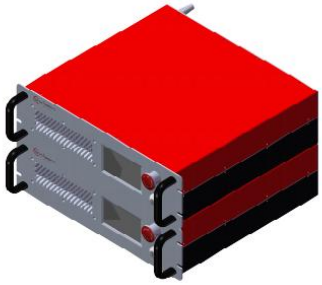
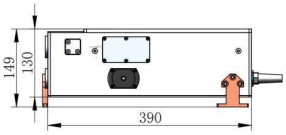
Air Cooling Control Unit Dimension

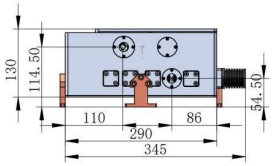


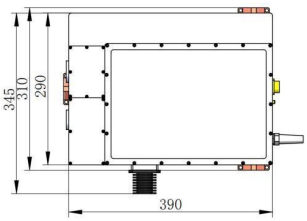


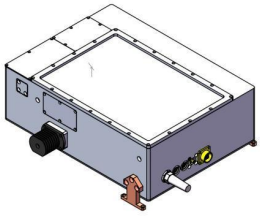




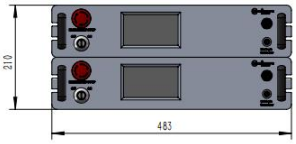


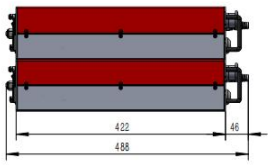


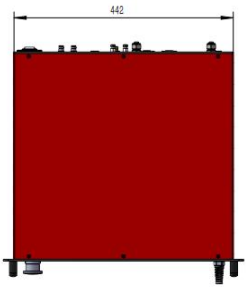


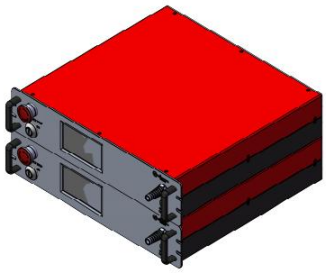


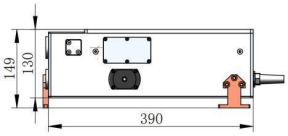
Water Cooling Control Unit Dimension

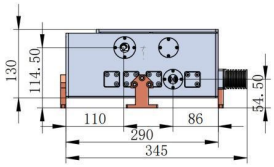


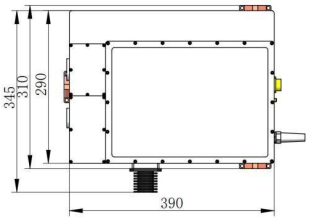


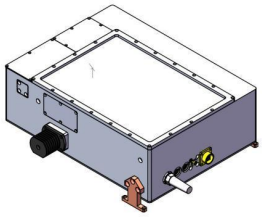












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