

506-567nm Laser

NARROW-LINEWIDTH CW LASERS



506-567nm Laser Based on high-power, low-noise Yb-doped fiber lasers amplifier and frequency doubling technology, Precilasers can provide high-power, narrow linewidth laser output from 506 to 567 nm.

- Narrow Linewidth Low
- High Power Power Stability
- Excellent Beam Quality
- Never Mode
- High Temperature And Vibration
- Resistance
- Laser cooling
- Optical Lattice Pump laser

Specifications

Parameter	Specification
Model Number	FL-SF-XXXX-YY-CW (1)
Wavelength Range	506-512nm / 512-532nm / 532nm / 543-556nm / 556-567nm
Typical Wavelength	509nm / 515nm / 532nm / 556nm / 567nm
Seed Laser Type	Fiber DFB Seed Laser (1012-1134nm) / Fixed External Cavity Diode Laser (FECL,1012-1134nm)
Output Power	>5W/30W / >10W/30W / >20W/30W/80W / >10W/20W / >3W
Thermal Tuning Range (2)	>0.35nm, Never Mode-hop@DFB seed >10GHz, Never Mode-hop@FECL seed
Output Mode	PM Fiber Output, FC/APC (Output Power ≤0.5W) OR Free Space Output (Compatible with all versions)
Beam Diameter (3)	0.7-1.0mm
Power Tuning Range	10-100%
Beam Pointing Stability	<50μrad
Linewidth (4) (100us)	<6kHz/20kHz@DFB seed <20kHz/60kHz@Fecl seed
PER	linear,>20dB
Power Stability	<0.75%@3hours, RMS
Beam Quality	TEM00, M2<1.1
Fast Frequency Tuning Range	>3GHz@DFB seed >1GHz@Fecl seed
Fast Frequency Tuning Bandwidth	>5kHz,PZT Tuning@DFB seed >1MHz,Current Tuning@Fecl seed
AOM Tuning Range (Optional)	>±5MHz
AOM Tuning Bandwidth (Optional)	>500kHz
RIN	<0.1% (RMS,10Hz-100MHz)
Cooling	Air Cooling (Output Power≤20W) /Water Cooling(Compatible with all versions)
Temperature	15-30 °C (Air Cooling) or 15-35 °C (Water Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Communication	RS422

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.