

1064nm Narrow Linewidth Laser

NARROW-LINEWIDTH CW LASERS



1064nm Narrow Linewidth Laser Based on ytterbium-doped fiber laser and amplification technology, it can achieve 1064nm single-frequency laser output with a maximum output power of 200W. Meanwhile, it ensures extremely low intensity noise and phase noise of the output laser, featuring high power, low-noise amplification, ultra-fast seed cutoff protection, and other characteristics.

- Narrow Linewidth Low Noise
- Ultra
- Stable Output Power Excellent
- Beam Quality Seed Power
- Cutoff Protection System
- Pump Source Optical Lattice
- Optical Tweezers Optical Trap
- Interferometry Holography Cold Atoms

Specifications

Parameter	FL-SF-1064-Y-CW (1)
Center Wavelength	1064nm
Output power	2W/10W/30W/50W/100W/130W/160W/200W
Seed laser type	Fiber DFB seed laser / Fixed external cavity diode laser
Linewidth(100us Integration Time)	<3kHz/5kHz / <10kHz/30kHz
Total tuning range (Temperature)	>0.7nm / >5GHz
Fast tuning bandwidth	>5kHz, PZT tuning / >1MHz, Current tuning
Fast tuning range	>3GHz/10GHz / >500MHz
AOM tuning bandwidth (optional)	>500kHz
AOM tuning range (optional)	>±5MHz
Relative intensity noise	<0.03% (RMS, 10Hz-10MHz integration)
Power stability	<0.75% @3hours, RMS
Power tuning range	1-100%
Output mode	PM fiber with FC/APC connector (Power≤2W) OR Free space collimated output (For all power)
Beam diameter (2)	0.6±0.2mm(Power≤30W), 1.7±0.2mm(Power>30W)
Pointing stability	<±2μrad/°C
Beam quality	TEM00, M ² <1.1
Polarization	Linear, >23dB
Output isolaton	>25dB
Cooling	Air cooling (Power≤20W)/Water cooling (For all power)
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.