

1064nm High-power Narrow Linewidth Laser

NARROW-LINEWIDTH CW LASERS



1064nm High-power 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 300W. 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	Specification
Model Number	FL-SF-1064-300-CW*
Center Wavelength	1064nm
Operation Mode	CW
Output Power	≥300W
Output Mode	Free Space Output
Linewidth (100μs Integration Time)	<5kHz
Power Stability	<0.75%@3hours, RMS
Power Tuning Range	1-100%
AOM Tuning Range (Option)	>500kHz
AOM Tuning Bandwidth (Option)	>±5MHz
Relative Intensity Noise (RMS, 10Hz-10MHz)	<0.05%
Beam Quality	$M^2 \leq 1.2$
Beam Diameter	1.8-2.2mm
Beam Spot Roundness	≥90%
Polarization Extinction Ratio	>23dB, Linear
Output Isolation	>30dB
Cooling	Water Cooling@20°C
Communication Interface	RS485
Armored Cable Length	~3.5m
Power Consumption	≤1500W

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