

313nm Laser

NARROW-LINEWIDTH CW LASERS



313nm Laser Based on single frequency seed laser, low noise fiber amplifier and high efficiency frequency convert technique, Precilasers can provide narrow linewidth 313nm CW lasers, maximum output power is 2W, features with high frequency stability, long life and good beam quality.

- Narrow Linewidth High Power
- Good Beam Quality Never
- Mod Hop
- Precision Measurement Wafer Metrology
- Interference Lithography

Specifications

Parameter	FL-SF-X-Y-CW
Wavelength Range	313nm-325nm, center wavelength can be selected
Linewidth(100 us integration)	<40kHz
Operational Mode	CW
Output Power	>300mW / >1W / >2W
Beam Diameter	1±0.15 mm
Beam Waist Location	output aperture±0.5m
Beam Divergence (full angle)	<0.6mrad
Beam Circularity	0.9-1.1
Beam Pointing Stability (P-P)	<50μrad@3h
Beam Quality	TEM00, M ² <1.2
Polarization	linear, Vertical, ±3°, >20dB
Power Stability	<0.75% @3hours, RMS
Relative Intensity Noise	<0.2%(RMS, 10Hz-10MHz integration)
Cooling	Water cooling
Cold Start	<2 hours
Warm Start	<15 minutes
Controller Size	≤483mm x 520mm x 132mm
Laser Head Size	≤390mm x 310mm x 130mm
Chiller Size	≤58cm x 29cm x 52cm
Laser Head Weight	≤18kg
Controller Weight	≤20kg
Chiller Weight	≤25kg
Cable Length Between Laser And Controller	fiber length>1.5m
Operating Temperature (No condensing)	15-35 °C (water cooling)
Power Supply	100V-240V, AC, 50/60Hz
Power Consumption	<170W / <200W / <240W
Communication	RS422

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