

460-488nm Laser

NARROW-LINEWIDTH CW LASERS



460-488nm Laser Based on single frequency seed laser, low noise fiber amplifier and high efficiency frequency convert technique, Precilasers can provide narrow linewidth 460-488nm CW lasers, features with high frequency stability, long life and good beam quality.

- Narrow Linewidth High Power
- High power Stability Good
- Beam Quality Never Mod
- Hop

Specifications

Parameter	FL-SF-X-Y (1) -CW
Wavelength Range	460-488nm
Typical Wavelength	460nm, 480nm, 488nm
Linewidth (2) (100 us integration)	<40kHz
Operational Mode	CW
Output Power	>50mW / >1W / >3W / >6W
Beam Diameter	1±0.15 mm
Beam Waist Location	output aperture±0.5m
Beam Divergence (full angle)	<1mrad
Beam Circularity	>90%
Beam Pointing Stability (PP)	<15μrad / <50μrad
Beam Quality	TEM00, M ² <1.3
Polarization	Linear, >20dB
Power Stability	<0.75% @3hours, RMS
Relative Intensity Noise	<0.2%(RMS, 10Hz-10MHz integration)
Cooling	Air cooling / Water cooling
Cold Start	<2 hours
Warm Start	<30 minutes
Controller Size	≤483mm x 420mm x 133mm (50mW) / ≤483mm x 520mm x 132mm (1W,3W,6W)
Laser Head Size	≤466mm x 133mm x 52mm(50mW) / ≤253mm x 455mm x 118.5mm (1W,3W,6W)
Chiller Size	NA / ≤58cm x 29cm x 52cm
Chiller Weight	≤25kg
Cable Length Between Laser Head And Controller	>1.5m
Operating Temperature (No condensing)	15-30 °C (Air cooling) / 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.