

355nm Narrow linewidth laser(Single-pass frequency tripling)

NARROW-LINEWIDTH CW LASERS



355nm Narrow linewidth laser(Single-pass frequency tripling) Based on single frequency seed laser, fiber laser amplification and single pass frequency doubling technology, Precilasers can provide narrow linewidth 355nm laser with maximum output of 20mW, high frequency stability, long lifetime and excellent beam quality.

- Narrow Linewidth Resistant to
- High Temperature and Vibration
- Working Environment Excellent Beam
- Quality Never Mode

Specifications

Parameter	FL-SF-355-X-CW
Center Wavelength	355.00nm
Linewidth (100 us integration)	<40kHz
Operation Mode	Continuous
Output Power	>20mW
Beam Waist Diameter	1±0.15 mm
Beam Waist Location Relative to Output Window	Output window within ±0.5m
Beam Divergence (Full Angle)	<0.7mrad
Beam Ellipticity	>90%
Pointing Stability (μrad)	<10μrad@3h
Beam Quality	TEM00, M ² <1.1
Polarization	Linear, Vertical±3°, >20dB
Power Stability	<0.75% @3hours, RMS
Relative Intensity Noise	<0.1%(RMS, 10Hz-10MHz integration)
Cooling	Air Cooling/Water Cooling
Cold Start	<2 Hour
From Standby	<10 minute
Laser Controller Dimensions	≤483mm x 420mm x 133mm (Air Cooling) / ≤483mm x 422mm x 105mm (Water Cooling)
Laser Head Dimensions	≤475mm x 90mm x 70mm
Chiller Dimensions	≤58cm x 29cm x 52cm
Laser Head Weight	≤5kg
Laser Controller Weight	≤22kg
Chiller Weight	≤25kg
Cable Length between Controller and Head	Non-detachable optical fiber length>1.5m
Temperature (No condensation conditions)	15-30 °C (Air Cooling) / 15-35 °C (Water Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Power Consumption	<120W
Communication	RS422

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