

257nm Laser

NARROW-LINEWIDTH CW LASERS



257nm Laser Based on single frequency seed laser, fiber laser amplification and high efficiency frequency conversion technology, Precilasers can provide narrow linewidth lasers of 257nm with a maximum output of 1W, high frequency stability, long lifetime and excellent beam quality.

- Long life High Power
- Narrow Linewidth Excellent Beam
- Quality Never Mode

Specifications

| Parameter | FL-SF-257-X-CW |
|---|---|
| Center Wavelength | 257.00nm |
| Linewidth (2) (100 us integration) | <50kHz |
| Operation Mode | Continuous |
| Output Power | >30mW / >100mW / >500mW |
| Beam Waist Diameter | 1±0.15 mm |
| Beam Waist Location Relative to Output Window (m) | Front bezel of Rayleigh Range±0.5m |
| Beam Divergence (Full Angle) | <0.5mrad |
| Beam Ellipticity | 0.9-1.1 |
| Pointing Stability (peak to peak) | <50μrad@3h |
| Beam Quality | TEM00, M ² <1.3 |
| Polarization | Linear, Vertical ±3°, >20dB |
| Power Stability | <1% @3hours, RMS |
| Relative Intensity Noise | <0.2%(RMS, 10Hz-10MHz integration) |
| Cooling | Air Cooling/Water cooling / Water cooling |
| Cold Start | <2 hours |
| From Standby | <15 minutes |
| Laser Head Dimensions | ≤460mm x 420mm x 133mm (30mW,100mW) / ≤483mm x 304mm x 133mm (500mW,1W) |
| Laser Controller Dimensions | ≤390mm x 310mm x 130mm (30mW,100mW) / ≤300mm x 530mm x 139mm (500mW,1W) |
| Chiller Dimensions | ≤58cm x 29cm x 52cm |
| Laser Head Weight | ≤20kg / ≤25kg |
| Laser Controller Weight | ≤25kg |
| Chiller Weight | ≤25kg |
| Cable Length between Controller and Head | Non-detachable optical fiber length>1.5m / Detachable cable length>5m |
| Temperature (without condensation) | 15-30 °C (Air Cooling) / 15-35 °C (Water cooling) |
| Power Supply | 100V-240V, AC, 50/60Hz |
| Power Consumption | <120W / <120W / <130W / <140W |
| Communication | RS422 |

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