SKYLARK 349 NX

SINGLE FREQUENCY CW DPSS UV LASER

Key features

Narrow linewidth
≤ 500 kHz

Low power noise
≤ 0.3 % RMS

Stable wavelength
± 0.2 pm over 8 hours

Stable output power
≤ 2.0 % over 8 hours

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Laser specifications

Output beam parameters

Output power	up to 400 mW
Wavelength	349 nm
Spectral bandwidth	≤ 500 kHz
Spatial mode	TEM_{00}
Spectral stability	± 0.2 pm (over 8 hours)
Coherence length	> 100 m
Output power stability	≤ 2.0 % (over 8 hours)
Output power noise	≤ 0.3 % RMS (10 Hz – 10 MHz)
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	1.0 - 1.5 mm
Beam pointing stability	≤ 5 µrad/°C

Environmental conditions

Ambient temperature range	18 - 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 - 50 °C
Humidity	0 - 50 %, non-condensing

What do our customers say about Skylark 349 NX CW DPSS single frequency lasers?

"An excellent replacement for an Argon or HeCd laser: emission is spectrally pure, efficiency is much better, it provides better longevity with cheaper maintenance, and it is much smaller."

SEMICONDUCTOR INSPECTION CUSTOMER

"The Skylark 349 NX delivers clean excitation at 3.55 eV and is an excellent replacement for an Argon laser at 351 nm."

INTERFERENCE LITHOGRAPHY CUSTOMER

"The Skylark 349 NX laser performs exceptionally well, maintaining high stability in beam alignment, power, and profile, all critical for achieving precision in interference lithography."

GRATING FABRICATION RESEARCHER

Reveal the unseen,
detect the imperceptible,
measure the unknown.