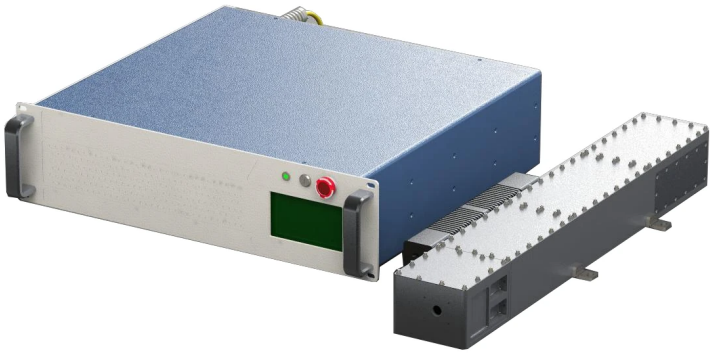
FL-355-SLM

355 nm single-frequency CW fiber laser

Optical system



Fundamental-frequency unit and third-harmonic head.

Component	L × W × H	Mass
Fundamental-frequency unit	507 × 483 × 120 mm	19 kg
Third-harmonic head	608 × 73 × 159 mm	≈7.3 kg
Water chiller	258.4 × 370 × 240.6 mm	10 kg

Applications

Interferometric exposure, Wafer measurement, Precision metrology

Ordering

Confirm the required linewidth, power stability, relative intensity noise and pointing stability with your chosen output power when requesting a quotation.

Class 3B laser radiation. Avoid direct beam exposure.

Technical specifications

Parameter	Specification
Wavelength	355 ± 1 nm
Operating mode	CW
Output / average power	10 mW or 20 mW
Longitudinal mode	Single longitudinal mode (SLM)
Transverse mode	TEM_{00}
Spectral linewidth	<50 kHz or <20 kHz
Power stability (RMS, 4 h, ±3 °C)	<1% or <0.5%
Relative intensity noise (RMS, 10 Hz-3 MHz)	<0.5% or <0.3%
M^2	<1.2
Beam diameter	0.6 ± 0.1 mm
Beam divergence (full angle)	<1 mrad
Beam ellipticity	>90%
Pointing stability	<50 µrad or <15 µrad
Polarization ratio	>100:1
Warm-up time	<30 min
Beam height from base plate	38.5 mm
Cooling	Water-cooled
Operating temperature	15-30 °C
Operating voltage	110/220 V AC
Expected lifetime	>10,000 h
Laser class	Class 3B