



FL-532-LN-H/3-10W

LOW-NOISE FIBER LASER

The low-noise fiber laser has the characteristics of ultra-stable output power, high output power, excellent beam quality and extremely low relative intensity noise (RIN), which is widely used in optical lattices, optical trap, atomic cooling, interferometry and holographic imaging , etc.



SPECIFICATIONS

Wavelength (nm)	532±1
Operating mode	CW
Free space output power (W) ¹	3-10
Power stability (rms, 4 hours ±3°C)	<2%, <1%
Transverse mode	TEM ₀₀
Longitudinal mode	SLM
Current adjustment range	1-100%
Spectral linewidth (nm)	<0.002
Relative intensity noise (rms, 10Hz-3MHz)	<0.1%
Frequency shift (MHz) (over ±2°C and 8 hours)	<±200
M ²	<1.1
Beam diameter (mm)	~1
Pointing stability over temperature (urad/°C)	<50
Polarization ratio (dB)	>20 Horizontal (Vertical optional)
Warm-up time (minutes)	<30
Cooled method	Water cooled
Operating temperature (°C)	15-30
Operating voltage (VAC)	110/220V
Expected lifetime (hours)	>10000



DIMENSION

Fundamental Frequency	Second harmonic	WATER CHILLER (WCH-580)
507(L)×483(W)×120(H) mm³, 19kg	451(L)×215(W)×63(H) mm³, 6.5kg	258.4(L)×370(W)×240.6(H) mm³, 10kg

¹ Any power level can be selected in this range.