



FL-532-SLM-H/3-15W

SINGLE LONGITUDINAL MODE FIBER LASER AT 532 nm

The high-power, single-longitudinal-mode, PM fiber laser comprises a seed laser and an amplifier. It is optimized for narrow linewidth operation and applications that require higher optical power, which has been designed for ultra-high resolution imaging, display, biological stimulation(flow cytometry, optogenetics), and precise interferometric measurement etc.



SPECIFICATIONS

Wavelength (nm)	532±1	
Operating mode	CW	
Free space output power (W) ¹	3-10	10-15
Power stability (rms, 4 hours ±3°C)	<2%, <1%, <0.5%	
Transverse mode	TEM ₀₀	
Longitudinal mode	SLM	
Current adjustment range	1-100%	
Spectral linewidth (kHz)	<50	
Relative intensity noise (rms, 10Hz-3MHz)	<0.2%, <0.1%	<0.5%
Frequency shift (MHz) (over ±2°C and 8 hours)	<±200	
M ²	<1.1	<1.2
Beam diameter (mm)	~0.8	
Pointing stability (urad)	<15	<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.