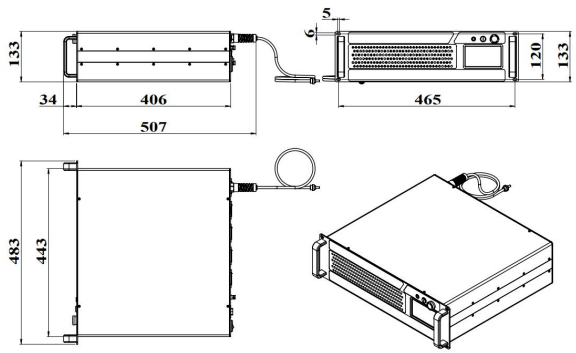
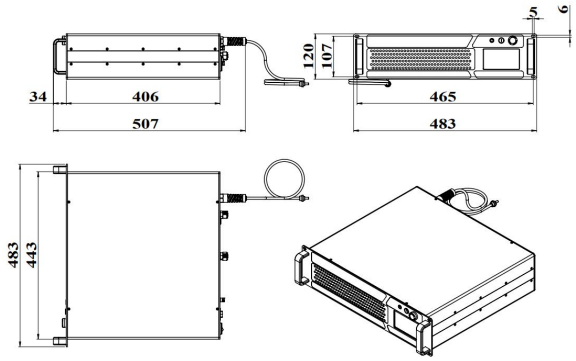
FL-LN-L Series (1014-1120nm)

LOW-NOISE FIBER LASER

The low-noise laser has the characteristics of ultra-stable output power, excellent beam quality and extremely low relative intensity noise(RIN), which is widely used in wafer inspection, optical trap, holographic imaging, pumping source and scientific research , etc.

SPECIFICATIONS

Wavelength (nm)	1014±1	1018±1	1027±1	1030±1	1040±1	1050±1	1053±1	1064±1	1080±1	1100±1	1120±1
Operating mode	CW										
Output power (W)[1]	1-5	1-10W								1-5W	1-2W
Power stability (rms, 4 hours ±3℃)	<2%, <1%, <0.5%										
Transverse mode	TEM_{00}										
Longitudinal mode	SLM										
Current adjustment range	1-100%										
Spectral linewidth (nm)	<0.004										
Relative intensity noise (rms, 10Hz-3MHz)	<0.1%, <0.05%										
Frequency shift (MHz) (over ±2℃and 8 hours)	<±200										
M^2	<1.1										
Fiber connector[2]	FC/APC, Collimator optional										
Fiber length(m)[3]	1										
Fiber jacket	PVC, Metal optional										
Beam diameter (mm)[4]	4±1 (Collimator output)										
Pointing stability over temperature (urad/℃)	<50										
Polarization ratio (dB)	>15, after PM fiber										
Warm-up time (minutes)	<30										
Cooled method	Air cooled or Water cooled										
Operating temperature (℃)	15-30										
Power supply (VAC)	110/220VAC										
Expected lifetime (hours)	>10000										

DIMENSION[5]	DIMENSION[6]
	
483(L)×507(W) ×133(H) mm³, 14.5 kg	483(L)×507(W) ×120(H) mm³, 17.5 kg

1 Any power level can be selected in this range.

2 Other output mode can be customized.

3 Other lengths are available on request.

4 Other beam diameter can be customized.

5 Air cooled (all power).

6 Water cooled (all power).