



FL-LN-L Series (775-785nm)

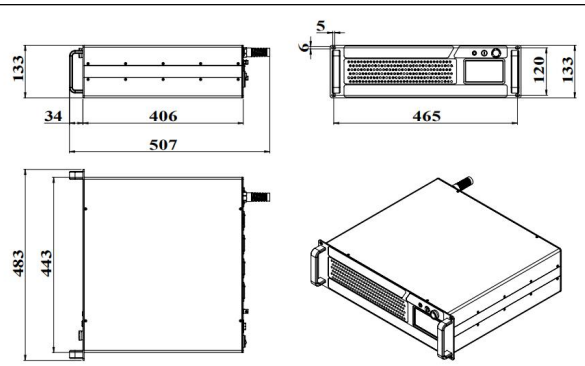
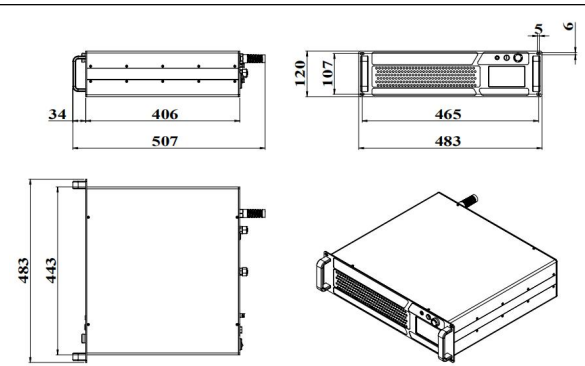
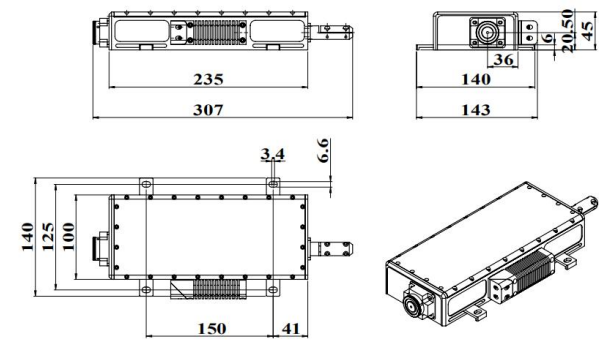
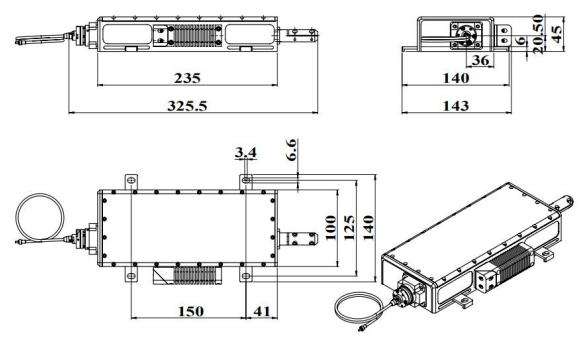
LOW-NOISE FIBER LASER

The low-noise laser has the characteristics of ultra-stable output power, Narrow line width, excellent beam quality and extremely low relative intensity noise(RIN), which is widely used in optical lattices, atomic cooling, quantum simulation and scientific research , etc.

SPECIFICATIONS

Wavelength (nm)	775±1	780±1	785±1
Operating mode	CW		
Free space output power (mW) ¹	1-2000	1-2000	1-500
Fiber coupled output power (mW)	1-500	1-500	1-250
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%, <0.05%		
Frequency shift (MHz) (over ±2°C and 8 hours)	<±200		
M ²	<1.1		
Numerical aperture	0.12NA		
Fiber connector ²	FC/APC		
Fiber length(m) ³	1		
Fiber jacket	PVC, Metal optional		
Beam diameter (mm)	~1@free space output		
Pointing stability over temperature (urad/°C)	<50		
Polarization ratio (dB)	>15 Horizontal (Vertical optional)		
Warm-up time (minutes)	<30		
Cooled method ⁴	Air cooled or Water cooled		
Operating temperature (°C)	15-30		
Operating voltage (VAC)	110/220V		
Expected lifetime (hours)	>10000		



DIMENSION	
Fundamental Frequency ⁵	Fundamental Frequency ⁶
 507(L)×483(W)×133(H) mm³, 16kg	 507(L)×483(W)×120(H) mm³, 19kg
Second harmonic (Free space)	Second harmonic (Fiber coupled)
 307(L)×143(W)×45(H) mm³, 1.8kg	 325.5(L)×143(W)×45(H) mm³, 1.9kg

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 Air cooled ($\leq 1W$); Water cooled ($\leq 2W$).

5 Air cooled.

6 Water cooled.