



FL-SLM Series (618-633nm)

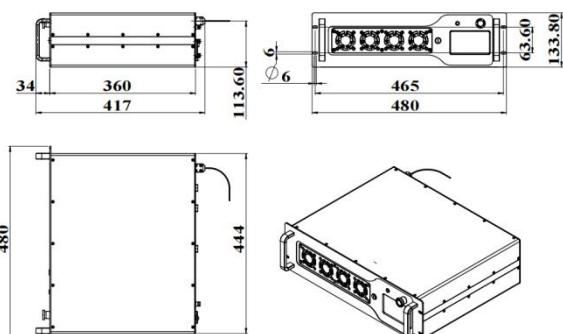
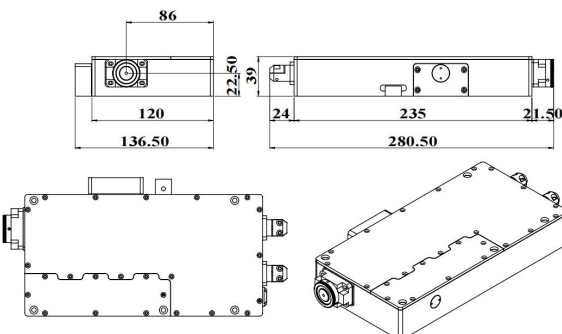
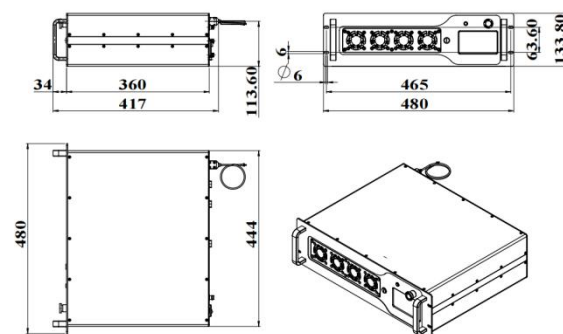
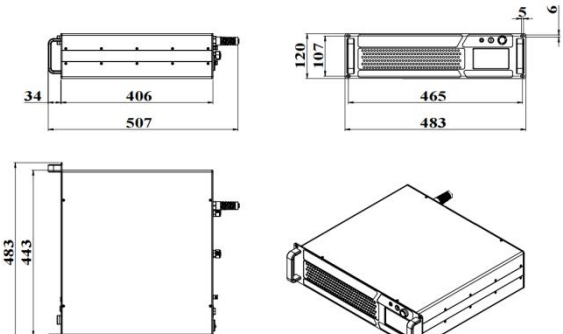
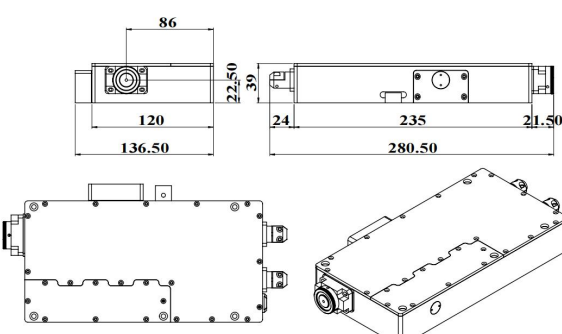
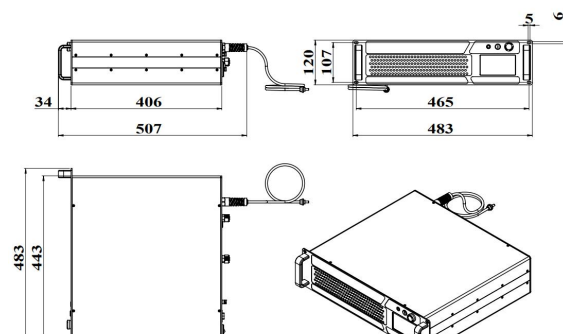
SINGLE LONGITUDINAL MODE FIBER LASER

The single-longitudinal-mode, PM fiber laser at 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 operation in quantum simulation, quantum degenerate gas, laser spectroscopy, gases detection, etc.



SPECIFICATIONS

Wavelength (nm)	618±1	631±1	633±1
Operating mode	CW		
Free space output power (mW) ¹	1-50	1mW-1.5W	1mW-1.5W
Fiber coupled output power (mW)	1-25	1-500	1-500
Power stability (rms, 4 hours ±3°C)	<2%, <1%		
Transverse mode	TEM ₀₀		
Longitudinal mode	SLM		
Current adjustment range	1-100%		
Spectral linewidth (kHz)	<100	<20	
Temperature tuning range (nm)	>0.2		
PZT Tuning range (GHz)	>5		
PZT Tuning bandwidth (kHz)	>5		
Relative intensity noise (rms, 10Hz-3MHz)	<0.3%, <0.1%, (<0.05% optional)		
Frequency shift (MHz) (over ±2°Cand 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 (urad)	<15	<50	
Polarization ratio (dB)	>15 Horizontal (Vertical optional)		
Warm-up time (minutes)	<30		
Cooled method	Air cooled or Water cooled		
Operating temperature (°C)	15-30		
Operating voltage (VAC)	110/220V		
Expected lifetime (hours)	>10000		

DIMENSION ⁴		
Fundamental Frequency (Free space)	SFG Module (Free space)	Fiber coupled
 417(L)×480(W)×134(H) mm³, 10kg	 280.5(L)×136.5(W)×39(H) mm³, 3kg	 417(L)×480(W)×134(H) mm³, 13kg
DIMENSION ⁵		
Fundamental Frequency (Free space)	SFG Module (Free space)	Fiber coupled
 461(L)×483(W)×120(H) mm³, 13kg	 280.5(L)×136.5(W)×39(H) mm³, 3kg	 507(L)×483(W)×120(H) mm³, 16kg

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.

5 Water cooled.