



FL-SLM Series (1525-1596nm)

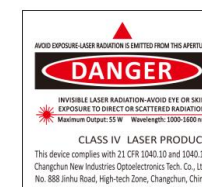
**SINGLE LONGITUDINAL MODE
FIBER LASER**

The single-longitudinal-mode, PM fiber laser at 1550nm 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 acoustic and seismic sensing, optical communication, LIDAR, pump laser for frequency double, interferometry, etc.

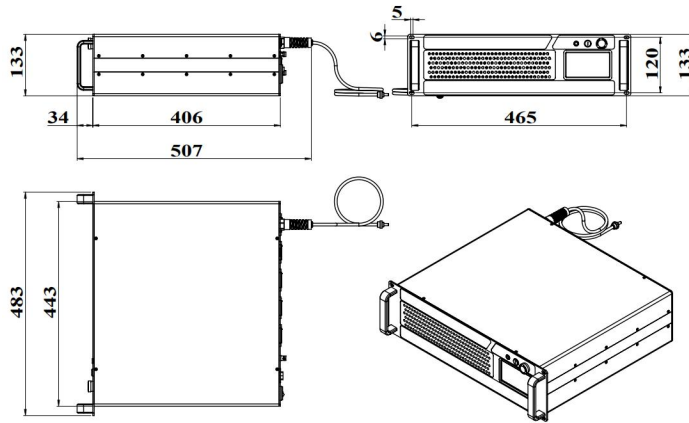


SPECIFICATIONS

Selectable wavelength range(nm)	1525-1530	1530-1570	1570-1596
Typical wavelength (nm)	1530	1540, 1550, 1560	1570
Operating mode	CW		
Output power (W) ¹	1mW-1W	1-10W	1mW-1W
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)	<10, <5		
Temperature tuning range (nm)	>0.4		
PZT Tuning range (GHz)	>3		
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		
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 (urad)	<5	<10	
Polarization ratio (dB)	>15, after PM fiber		
Warm-up time (minutes)	<30		
Cooled method	Air cooled or Water cooled		
Operating temperature (°C)	15-30		
Power supply (VAC)	110/220VAC		
Expected lifetime (hours)	>10000		

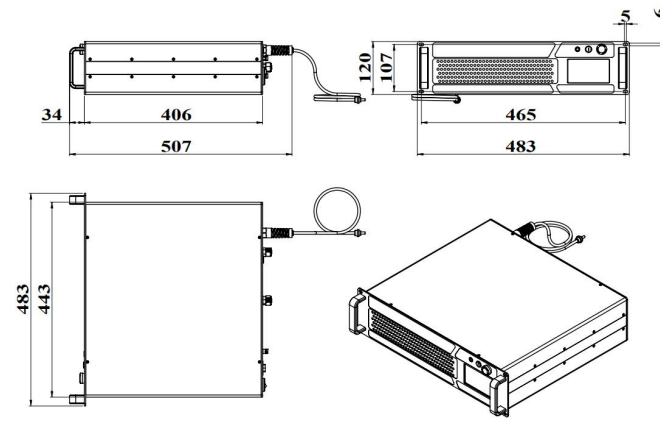


DIMENSION⁵



483(L)×507(W)×133(H) mm³, 16 kg

DIMENSION⁶



483(L)×507(W)×120(H) mm³, 19kg

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).