



FL-SLM Series (1014-1120nm)

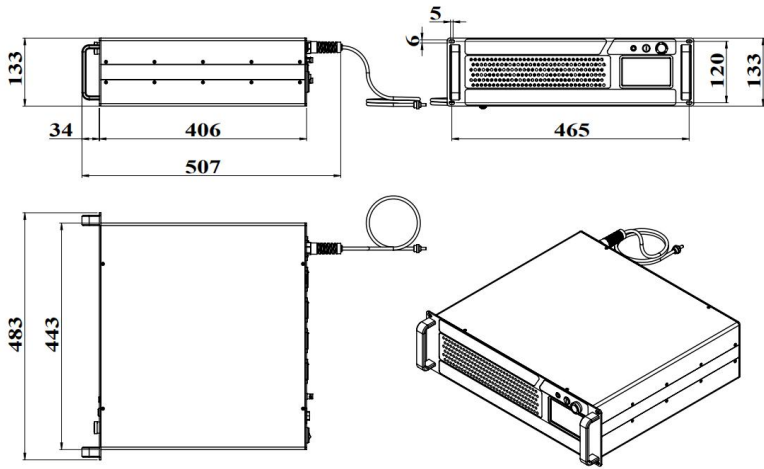
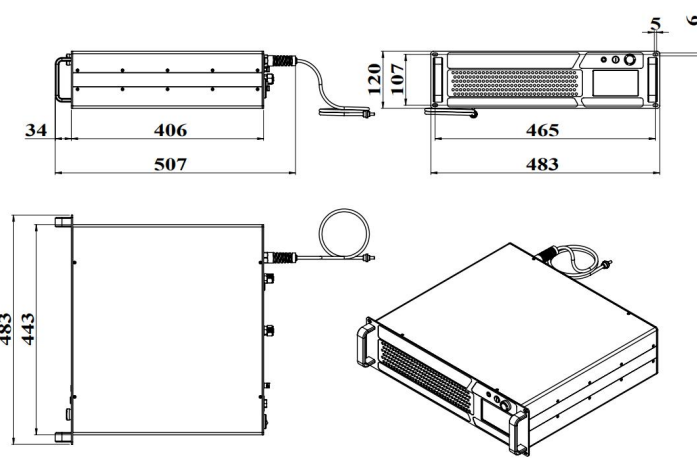
SINGLE LONGITUDINAL MODE FIBER LASER

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 operation in source for frequency doubling, Mid-Infrared pump laser, neutron source of solid state laser, biomedical 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°C)	<2%, <1%, <0.5%										
Transverse mode	TEM ₀₀										
Longitudinal mode	SLM										
Current adjustment range	1-100%										
Spectral linewidth (kHz)	<10							<10, <5	<10	<20	<100
Temperature turning range (nm)	>0.4										
PZT Turning range (GHz)	>3										
PZT Turning bandwidth (kHz)	>5										
Relative intensity noise (rms, 10Hz-3MHz)	<0.3%, <0.1%, (<0.05% optional)										
Frequency shift (MHz) (over ±2°C 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 (urad)	<5						<10				
Polarization ratio (dB)	>15, after PM fiber										
Warm-up time (minutes)	<30										
Cooled method ⁵	Air cooled or Water cooled										
Operating temperature (°C)	15-30										
Power supply (VAC)	110/220VAC										
Expected lifetime (hours)	>10000										

DIMENSION ⁶	DIMENSION ⁷
 483(L)×507(W) ×133(H) mm³, 16 kg	 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); Water cooled (all power).

6 Air cooled.

7 Water cooled.