FL-1550-LN-L/1-10W

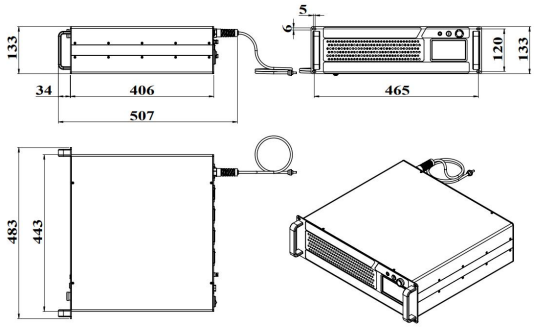
LOW-NOISE FIBER LASER AT 1550 nm

The 1550nm 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, pumping source and scientific research , etc.

SPECIFICATIONS

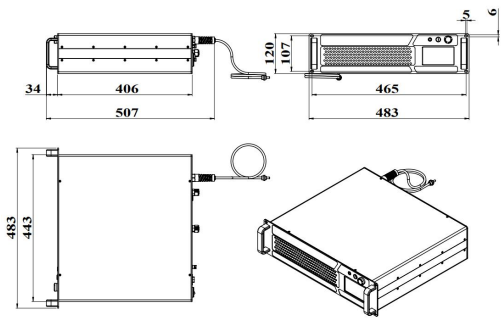
Wavelength (nm)	1550±1	
Operating mode	CW	
Output power (W)[1]	1-10W	
Power stability (rms, 4 hours ±3℃)	<2%, <1%, <0.5%	
Transverse mode	TEM_{00}	
Longitudinal mode	SLM	
Current adjustment range	1-100%	
Spectral linewidth (nm)	<0.004	
Relative intensity noise (rms,10Hz-3MHz)	<0.1%, <0.05%	
Frequency 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 (urad)	<5	<10
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]



483(L)×507(W) ×133(H) mm³, 14.5 kg

DIMENSION[6]



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. 6 Water cooled.