



FL-LN-FA Series (1525-1596nm)

ERBIUM-DOPED FIBER
AMPLIFIER

The Erbium-doped fiber amplifier produced by our company features high output power, high efficiency, excellent beam quality and a compact structure, which is widely used in industrial material processing, ultrafast laser amplification and laser radar, etc.

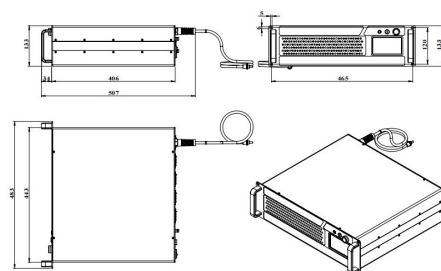


SPECIFICATIONS

Wavelength range(nm)	1525-1570	1570-1596
Typical wavelength (nm)	1550, 1560, 1570	
Output power (W) ¹	1-10	1mW-1W
Operating mode	CW	
Power stability (rms, 4 hours ±3°C)	<2%, <1%, <0.5%	
Power turning range	1-100%	
Transverse mode	TEM ₀₀	
M ²	<1.1(Power≤5W) <1.2(Power>5W)	<1.1
Excess Relative intensity noise (rms,10Hz-3MHz)	<0.05%	
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 over temperature (urad/°C)	<50	
Polarization ratio (dB)	>15, after PM fiber	
Seed laser input power (mW)	≥10, Single mode PM fiber, FC/APC	
Seed laser input isolation (dB)	>20	
Output laser isolation (dB)	>20	
Cooled method	Air cooled or Water cooled	
Operating temperature (°C)	15-30	
Power supply (VAC)	110/220VAC	
Expected lifetime (hours)	>10000	

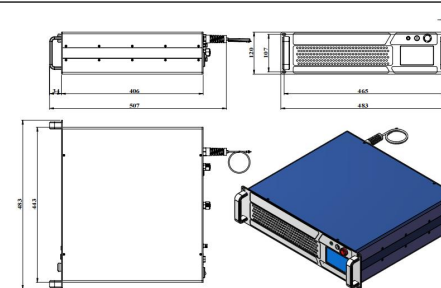


DIMENSION⁵



483(L)×507(W)×133(H) mm³, 10 kg

DIMENSION⁶



483(L)×507(W)×120(H) mm³, 11kg

1 Any power level can be selected in this range. 2 FC/APC (≤10W), collimator (all power), 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.