



FL-LN-FA Series (1014-1120nm)

YTTERBIUM-DOPED FIBER
AMPLIFIER

The Ytterbium-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.

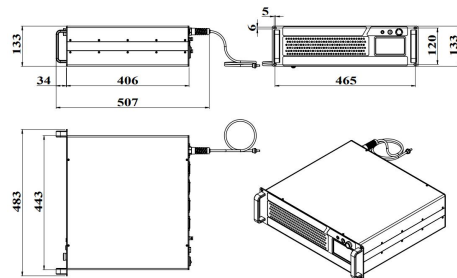


SPECIFICATIONS

Wavelength range(nm)	1014-1030	1030-1080	1080-1100
Typical wavelength (nm)	1018, 1030, 1064		
Output power (W) ¹	1-10	1-50	1-10
Operating mode	CW		
Power stability (rms, 4 hours ±3℃)	<2%, <1%, <0.5%		
Power turning range	1~100%		
Transverse mode	TEM ₀₀		
M ²	<1.1(Power≤5W)	<1.1(Power≤30W)	<1.1(Power≤5W)
	<1.3(Power>5W)	<1.3(Power>30W)	<1.3(Power>5W)
Excess relative intensity noise (rms, 10Hz-3MHz)	<0.03%		
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		
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 (≤30W) or Water cooled (≤50W)		
Operating temperature (℃)	15-30		
Power supply (VAC)	110/220VAC		
Expected lifetime (hours)	>10000		

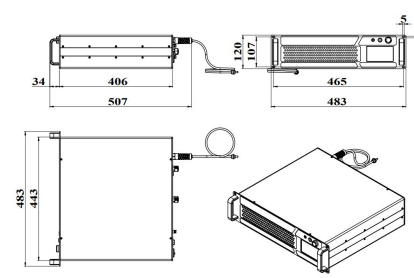


DIMENSION⁵



483(L)×507(W)×133(H) mm³, 14.5 kg

DIMENSION⁶



483(L)×507(W)×120(H) mm³, 17.5 kg

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.