



FL-1xxx-FA-LN/1-50W

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 has been designed for industrial material processing, ultrafast laser amplification and laser radar, etc.

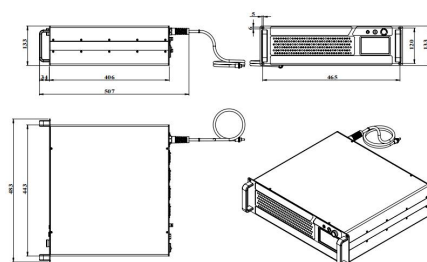


SPECIFICATIONS

Wavelength range(nm)	1014-1030	1030-1080	1080-1100
Typical Wavelength (nm)	1018, 1030, 1064		
Output power (W)	≥2, 5, 10	≥2, 10, 20, 30, 50	≥2, 5, 10
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) <1.3(Power>5W)	<1.1(Power≤30W) <1.3(Power>30W)	<1.1(Power≤5W) <1.3(Power>5W)
Excess relative intensity noise (DC-3MHz)	<0.03%		
Fiber connector ¹	FC/APC, Collimator optional		
Fiber length(m) ²	1		
Fiber Jacket	PVC, Metal optional		
Beam diameter (mm) ³	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(≤30W) or Water cooled(≤50W)		
Operating temperature (°C)	15-30		
Power supply (VAC)	110/220VAC		
Expected lifetime (hours)	>10000		

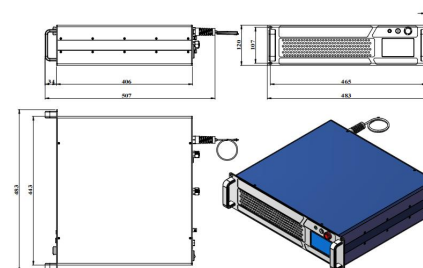


LASER HEAD (Driver integrated)⁴



483(L)×507(W)×133(H) mm³, 10 kg

LASER HEAD (Driver integrated)⁵



483(L)×507(W)×120(H) mm³, 11kg

1 FC/APC (≤10W), collimator (all power), other output mode can be customized. 2 other lengths are available on request. 3 Other beam diameter can be customized. 3 Air cooled. 4 Water cooled.