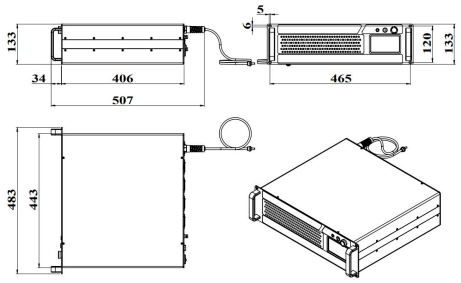
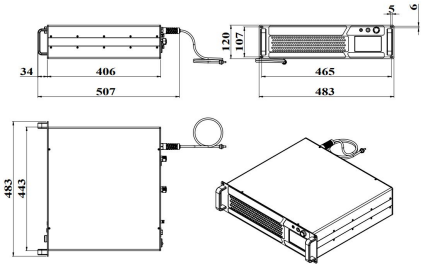
**FL-LN-FA Series (1014-1120nm)**

# 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)<br><1.3(Power>5W) | <1.1(Power≤30W)<br><1.3(Power>30W) | <1.1(Power≤5W)<br><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 over temperature (urad/℃) | <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 (℃) | 15-30 | | |
| Power supply (VAC) | 110/220VAC | | |
| Expected lifetime (hours) | >10000 | | |


| DIMENSION[5] | DIMENSION[6] |
|---|---|
|  |  |
| **483(L)×507(W) ×133(H) mm³, 14.5 kg** | **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.