

SFL-FL-R1480-P100



1480nm 100W Non-Single-Frequency Fiber Lasers

Core Parameters

Central wavelength 1480nm Power 100W, Linewith 1nm, $M^2 < 1.2$

Overview

The SFL-FL Series features broad spectral coverage, high output power, and exceptional beam quality. It is engineered for cutting-edge applications in scientific research, optical communications, biomedical engineering, and more.

Features

Broad Spectral Versatility: Covers key wavebands across the NIR and SWIR spectrum.

High Output Power: Delivering up to 500 W (model dependent) with excellent stability.

Superior Beam Quality: $M2 < 1.2$, ideal for high-precision applications.

Flexible Cooling: Options for efficient air or water cooling to match your setup.

Technical Specifications

Model / Variant	-R	-Nd	-Yb	-Er	-Tm
Wavelength (nm) ¹	1100–1700	910–930	974–1120	1530–1570	1700–2000
Output Power (W)	5–200	5–20	10–500	10–50	2–100
Linewidth ²	~1nm				

Polarization ³	Random / Linear
Power Stability	Peak-to-Peak < 3%, RMS < 0.5%
Beam Quality	Single transverse mode, M2 < 1.2
Cooling Method	Water-cooled / Air-cooled
Output Terminal	Fiber Collimator

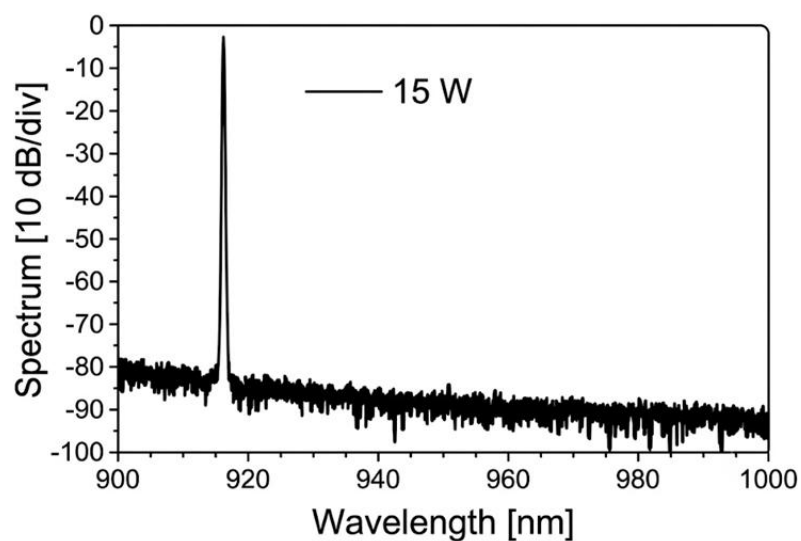
Notes:

¹ Custom wavelengths are available upon request. Frequency-doubled options for visible wavelengths are also available.

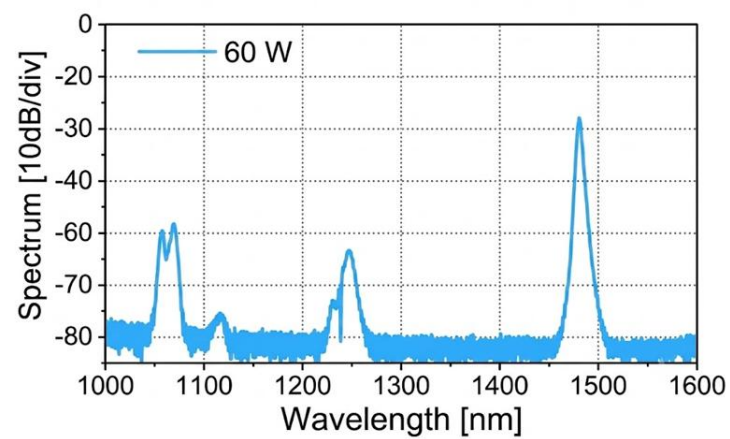
² Linewidth may vary depending on the configured output power and laser wavelength.

³ Maximum output power may vary under different polarization requirements.

Typical Spectrum Performance



915 nm Nd-Doped Fiber Laser (15 W): Demonstrates an ultra-clean, high-SNR emission peak around 915 nm.



1480 nm Raman Fiber Laser (60 W): Shows targeted high-power secondary Stokes generation optimal for pumping and specialized telecommunication bands.