# Ytterbium CW Fiber Laser Unit
# LAS-YFL-00-LP-U

## Features

- MHz, GHz and THz linewidth are available on request
- Build-in isolator
- Random or Linear polarization
- Front panel LCD display and status LED indicators for quick access of unit's status RS-232 or Ethernet interface for remote supervision

## Applications

- Holography & interferometry
- Atom trapping
- CW Mid-IR OPO pumping
- High Resolution CW Spectroscopy
- Fiber sensing

## Description

**GIP Technology** Ytterbium CW Fiber Laser Unit (LAS-YFL-00-LP-U), which architecture allows keeping the seeder properties whatever the output power, are available CW output power up to 100W with a random or linear polarization. The LAS-YFL-00-LP-U fiber system embedded several isolators to ensure stability and security versus backlight reflection.

The LAS-YFL-00-LP-U do not need replacement parts and requires only a 110/220V AC power source (or DC voltage) to generate the 1.0um CW laser. It can be used in the components, atom trapping, optical tweezers or sub-assembly manufacturing as well as research and development (R&D) environments.

In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS232).

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Brightening Your Solutions

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## Specifications

| Optical Information | | Unit | Description | | | |
|---|---|---|---|---|---|---|
| Saturated output power | Max. | Watt | 2 | 10 | 50 | 100 |
| Mode of operation | | | CW | | | |
| Center wavelength[*1] | | nm | 1064 ~ 1083 | | | |
| Beam quality | Max. | $M^2$ | 1.1 | | 1.3 | |
| Linewidth[*2] | Max. | nm | 1 | | | |
| Polarization | | | Random or Linear | | | |
| Polarization extinction ratio[*3] | Min. | dB | 20 | | 17 | |
| Output power stability, RMS[*4] | Max. | % | 3 | | | |
| Power tunability | | % | 10 ~ 100 | | | |
| Outout fiber length | Min. | M | 1 | | | |
| Connector | | | FC/APC or Collimator | | Collimator | |
| **Electrical Information** | | | | | | |
| Operating voltage | | Volt | 100 ~ 240VAC, 50/60Hz | | | |
| Control mode[*5] | | | APC or ACC | | | |
| Control interface | | | RS-232 | | | |
| **Environmental Information** | | | | | | |
| Operating ambient temperature | | °C | 0 ~ 50 | 15 ~ 35 | | |
| Storage temperature | | °C | 0 ~ 60 | | | |
| Relative humidity (non-condense) | | % | 5 ~ 85 (operating) | | | |
| Cooling[*6] | | | Air cooling | | | |
| **Mechanical Information** | | | | | | |
| Dimension (W x L x H)[*7] | | mm | Benchtop or 19” 2U | 19” 2U | 19” 4U | 19” 4U |

*1. Available in other wavelengths, such as 1018nm, 1030nm, 1053nm, 1100nm…etc.

*2. MHz, GHz, and THz linewidth are available on request.

*3. Only for linear polarization version.

*4. Measured at RT, RMS for 8 hours.

*5. Ask for APC or ACC.

*6. Available in water cooling.

*7. OEM module versions available.