

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 Erbium CW Fiber Laser Unit (LAS-EFL-00-LP-U), which architecture allows keeping the seeder properties whatever the output power, are available CW output power up to 30W with a random or linear polarization. The LAS-EFL-00-LP-U fiber system embedded several isolators to ensure stability and security versus backlight reflection.



The LAS-EFL-00-LP-U do not need replacement parts and requires only a 110/220V AC power source (or DC voltage) to generate the 1.5um 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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Specifications

Optical Information		Unit	Description		
Saturated output power	Max.	Watt	3	10	30
Mode of operation			CW		
Center wavelength* ¹		nm	1535 ~ 1565		
Beam quality	Max.	M ²	1.1		1.2
Linewidth* ²	Max.	nm	1		
Polarization			Random or Linear		
Polarization extinction ratio* ³	Min.	dB	20		17
Output power stability, RMS* ⁴	Max.	%	3		4
Power tunability		%	10 ~ 100		
Output 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			Air cooling		
Mechanical Information					
Dimension (W x L x H)* ⁶		mm	Benchtop	19" 2U	19" 3U

*1. Specify by ITU Grid Channel

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

*3. Only for linear polarization version.

*4. Measured at 25°C, RMS for 8 hours

*5. Ask for APC or ACC

*6. OEM module versions available