

Features

- * Narrow-linewidth (<2kHz)
- * Single longitudinal mode
- * High reliable and stable
- * Build-in isolator
- * Maintenance free
- * Random or linear polarization
- * RS-232 interface for local supervision.

Applications

- * Laser seeding
- * LIDAR
- * 1D/3D sensing testing
- * Fiber laser

Description

GIP Technology 1.5μm Single-Frequency Light Source Unit (LIS-ELS-SF-LP-U) is a 1.5μm narrow-linewidth light source, which provides the spectral linewidth down to < 2kHz for long coherence length. It can be used in the LIDAR, remote sensing, Interferometric fiber optic sensing, coherent communication as well as research and development (R&D) environments.



The light source does not need water cooling or replacement parts, only 110/220V AC power supply or +12/+24 DC power supply is needed to obtain the single frequency laser.

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				
Spectral linewidth	Max.	kHz	2	5	15		
Mode of operation			CW				
Center wavelength ^{*1}		nm	1543, 1545 or 1550				
Saturated output power	Min.	mW	6				
Output power stability ^{*2}	Max.	dB	±0.05				
Polarization			Random or Linear				
Polarization extinction ratio ^{*3}	Min.	dB	20				
Output fiber length	Min.	M	0.5				
Connector			FC/APC				
Electrical Information							
Operating voltage	Volt		100 ~ 240VAC, 50/60Hz				
Control mode			APC				
Control interface			RS-232				
Environmental Information							
Operating ambient temperature	°C		0 ~ 45				
Storage temperature	°C		0 ~ 60				
Relative humidity (non-condense)	%		5 ~ 85 (operating)				
Cooling			Air cooling				
Mechanical Information							
Dimension (W x L x H) ^{*4}	mm		Benchtop				

*1. Other wavelength on request.

*2. Measured at 25°C, maximum output power, 1 hour after 30 minutes warm up

*3. For PM version only

*4. OEM module versions available.