

1.0 μ m Single-Frequency Light Source Unit

LIS-YLS-SF-LP-U

Features

- * Narrow-linewidth (<5kHz)
- * Single longitudinal mode
- * High reliable and stable
- * Build-in isolator
- * Maintenance free
- * Polarization-maintaining
- * RS-232 interface for local supervision.

Applications

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

Description

GIP Technology 1.0 μ m Single-Frequency Light Source Unit (LIS-YLS-SF-LP-U) is a 1.0 μ m narrow-linewidth light source, which provides the spectral linewidth down to < 5kHz 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 LIS-YLS-SF-LP-U 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	5	15
Mode of operation			CW	
Center wavelength		nm	1064 \pm 3	
Saturated output power	Min.	mW	6	
Output power stability ^{*1}	Max.	dB	\pm 0.05	
Polarization			Linear	
Polarization extinction ratio	Min.	dB	17	
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		$^{\circ}$ C	0 ~ 45	
Storage temperature		$^{\circ}$ C	0 ~ 60	
Relative humidity (non-condense)		%	5 ~ 85 (operating)	
Cooling			Air cooling	
Mechanical Information				
Dimension (W x L x H) ^{*2}		mm	Benchtop	

*1. Measured at 25 $^{\circ}$ C, maximum output power, 1 hour after 30 minutes warm up.

*2. OEM module versions available.